

Diseases by Gene Reference Guide

FFPE Precision Oncology NGS Panel | Downloadable Reference

Total genes listed
245

Gene	Associated Diseases
ABL1	Leukemia, Lymphoid; Leukemia, Myelogenous, Chronic, BCR-ABL Positive; Leukemia, Myeloid; Leukemia, Myeloid, Acute; Leukemia, Myeloid, Chronic, Atypical, BCR-ABL Negative; Leukemia, Myeloid, Chronic-Phase; Neoplasms; Precursor B-Cell Lymphoblastic Leukemia-Lymphoma; Precursor Cell Lymphoblastic Leukemia-Lymphoma; Precursor T-Cell Lymphoblastic Leukemia-Lymphoma
ACVR1	Diffuse Intrinsic Pontine Glioma; Myeloproliferative Disorders; Neoplasms
ACVR2A	Adenocarcinoma, Bronchiolo-Alveolar; Adenocarcinoma of Lung; Carcinoma, Non-Small-Cell Lung; Lung Neoplasms; Neoplasms; Soft Tissue Neoplasms
AKT1	Breast Neoplasms; Breast Neoplasms, Male; Carcinoma, Ductal, Breast; Carcinoma, Non-Small-Cell Lung; Endometrial Neoplasms; Inflammatory Breast Neoplasms; Melanoma; Melanoma, Amelanotic; Neoplasms; Nevi and Melanomas; Ovarian Neoplasms; Paget's Disease, Mammary; Prostatic Neoplasms; Triple Negative Breast Neoplasms
AKT2	Breast Neoplasms; Breast Neoplasms, Male; Carcinoma, Ductal, Breast; Inflammatory Breast Neoplasms; Neoplasms; Paget's Disease, Mammary; Prostatic Neoplasms
AKT3	Breast Neoplasms
ALK	Adenocarcinoma, Bronchiolo-Alveolar; Adenocarcinoma of Lung; Carcinoma, Non-Small-Cell Lung; Carcinoma, Renal Cell; Fibrosarcoma; Glioma; Kidney Neoplasms; Lung Neoplasms; Lymphoma, Large B-Cell, Diffuse; Lymphoma, Large-Cell, Anaplastic; Neoplasms; Neuroblastoma; Soft Tissue Neoplasms
APC	Adenocarcinoma, Bronchiolo-Alveolar; Adenocarcinoma of Lung; Carcinoma, Non-Small-Cell Lung; Colorectal Neoplasms; Desmoid Tumors; Lung Neoplasms; Neoplasms
AR	Breast Neoplasms; Carcinoma, Ductal, Breast; Prostatic Intraepithelial Neoplasia; Prostatic Neoplasms; Triple Negative Breast Neoplasms
ARHGAP26	Adenocarcinoma, Bronchiolo-Alveolar; Adenocarcinoma, Mucinous; Adenocarcinoma of Lung; Carcinoma, Non-Small-Cell Lung; Carcinoma, Pancreatic Ductal; Leukemia, Biphenotypic, Acute; Leukemia, Myeloid, Acute; Leukemia, Myelomonocytic, Acute; Lung Neoplasms; Neoplasms; Precursor Cell Lymphoblastic Leukemia-Lymphoma; Stomach Neoplasms
ARID1A	Breast Neoplasms; Breast Neoplasms, Male; Carcinoma, Ductal, Breast; Colonic Neoplasms; Colorectal Neoplasms; Inflammatory Breast Neoplasms; Lymphoma, B-Cell; Lymphoma, Follicular; Neoplasms; Ovarian Neoplasms; Paget's Disease, Mammary; Rectal Neoplasms; Stomach Neoplasms
ARID1B	Breast Neoplasms; Breast Neoplasms, Male; Carcinoma, Ductal, Breast; Carcinoma, Renal Cell; Inflammatory Breast Neoplasms; Leukemia, Biphenotypic, Acute; Paget's Disease, Mammary; Precursor B-Cell Lymphoblastic Leukemia-Lymphoma
ARID2	Adenocarcinoma, Bronchiolo-Alveolar; Adenocarcinoma of Lung; Carcinoma, Hepatocellular; Carcinoma, Non-Small-Cell Lung; Colonic Neoplasms; Colorectal Neoplasms; Endometrial Neoplasms; Gallbladder Neoplasms; Lung Neoplasms; Lymphoma, Large-Cell, Anaplastic; Melanoma; Melanoma, Amelanotic; Mouth Neoplasms; Neoplasms; Nevi and Melanomas; Rectal Neoplasms; Soft Tissue Neoplasms; Squamous Cell Carcinoma of Head and Neck
ATM	Leukemia, Lymphocytic, Chronic, B-Cell; Lymphoma, B-Cell, Marginal Zone; Lymphoma, Mantle-Cell; Neoplasms; Prostatic Intraepithelial Neoplasia; Prostatic Neoplasms
ATR	Prostatic Intraepithelial Neoplasia; Prostatic Neoplasms
ATRX	Glioma; Leiomyosarcoma; Leukemia, Biphenotypic, Acute; Leukemia, Myeloid, Acute; Leukemia, Myelomonocytic, Acute; Myelodysplastic Syndromes; Neoplasms; Neuroendocrine Tumors; Precursor Cell Lymphoblastic Leukemia-Lymphoma; Uterine Neoplasms
AURKA	Esophageal Neoplasms; Neuroendocrine Tumors
B2M	Leukemia, Lymphocytic, Chronic, B-Cell; Lymphoma, Large B-Cell, Diffuse; Lymphoma, Mantle-Cell; Melanoma; Melanoma, Amelanotic; Multiple Myeloma; Myeloproliferative Disorders; Neoplasms; Nevi and Melanomas
BAP1	Adenocarcinoma, Bronchiolo-Alveolar; Adenocarcinoma, Mucinous; Adenocarcinoma of Lung; Carcinoma, Non-Small-Cell Lung; Carcinoma, Pancreatic Ductal; Lung Neoplasms; Mesothelioma; Neoplasms; Uveal Neoplasms
BARD1	Breast Neoplasms; Breast Neoplasms, Male; Carcinoma, Ductal, Breast; Inflammatory Breast Neoplasms; Neoplasms; Neuroblastoma; Paget's Disease, Mammary; Prostatic Intraepithelial Neoplasia; Prostatic Neoplasms; Triple Negative Breast Neoplasms

Gene	Associated Diseases
BCOR	Glioma; Leukemia, Biphenotypic, Acute; Leukemia, Myelogenous, Chronic, BCR-ABL Positive; Leukemia, Myeloid, Acute; Leukemia, Myelomonocytic, Acute; Leukemia, Promyelocytic, Acute; Lymphoma, Extranodal NK-T-Cell; Myelodysplastic Syndromes; Neoplasms; Precursor B-Cell Lymphoblastic Leukemia-Lymphoma; Precursor Cell Lymphoblastic Leukemia-Lymphoma; Rhabdomyosarcoma, Embryonal; Sarcoma, Clear Cell; Sarcoma, Endometrial Stromal; Sarcoma, Small Cell
BMPR1A	Colonic Neoplasms; Colorectal Neoplasms; Rectal Neoplasms
BRAF	Adenocarcinoma, Bronchiolo-Alveolar; Adenocarcinoma, Follicular; Adenocarcinoma of Lung; Adenocarcinoma, Papillary; Astrocytoma; Breast Neoplasms; Carcinoid Tumor; Carcinoma, Embryonal; Carcinoma, Large Cell; Carcinoma, Neuroendocrine; Carcinoma, Non-Small-Cell Lung; Carcinoma, Papillary, Follicular; Carcinoma, Renal Cell; Carcinoma, Squamous Cell; Cholangiocarcinoma; Chordoma; Colonic Neoplasms; Colorectal Neoplasms; Common Bile Duct Neoplasms; Erdheim-Chester Disease; Ganglioglioma; Ganglioneuroma; Gastrointestinal Neoplasms; Gastrointestinal Stromal Tumors; Germinoma; Glioblastoma; Glioma; Gonadoblastoma; Head and Neck Neoplasms; Histiocytosis, Langerhans-Cell; Histiocytosis, Sinus; Intestinal Neoplasms; Kidney Neoplasms; Leukemia, Hairy Cell; Lung Neoplasms; Melanoma; Melanoma, Amelanotic; Mesonephroma; Multiple Myeloma; Neoplasms; Neurilemmoma; Neurocytoma; Neuroectodermal Tumor, Melanotic; Neuroectodermal Tumors, Primitive; Neuroendocrine Tumors; Nevi and Melanomas; Ovarian Neoplasms; Pancreatic Neoplasms; Paraganglioma; Pinealoma; Prostatic Intraepithelial Neoplasia; Prostatic Neoplasms; Rectal Neoplasms; Retinoblastoma; Sarcoma; Solid tumor; Teratocarcinoma; Teratoma; Thyroid Carcinoma, Anaplastic; Thyroid Neoplasms; Triple Negative Breast Neoplasms; Trophoblastic Neoplasms; Xanthogranuloma, Juvenile
BRCA1	Breast Neoplasms; Breast Neoplasms, Male; Carcinoma, Ductal, Breast; Carcinoma, Pancreatic Ductal; Fallopian Tube Neoplasms; Inflammatory Breast Neoplasms; Neoplasms; Ovarian Neoplasms; Paget's Disease, Mammary; Pancreatic Neoplasms; Peritoneal Neoplasms; Prostatic Neoplasms; Triple Negative Breast Neoplasms
BRCA2	Adenocarcinoma, Bronchiolo-Alveolar; Adenocarcinoma of Lung; Breast Neoplasms; Breast Neoplasms, Male; Carcinoma, Ductal, Breast; Carcinoma, Non-Small-Cell Lung; Carcinoma, Pancreatic Ductal; Esophageal Neoplasms; Fallopian Tube Neoplasms; Inflammatory Breast Neoplasms; Lung Neoplasms; Neoplasms; Oropharyngeal Neoplasms; Ovarian Neoplasms; Paget's Disease, Mammary; Pancreatic Neoplasms; Peritoneal Neoplasms; Prostatic Neoplasms; Skin Neoplasms; Triple Negative Breast Neoplasms
BRD3	Carcinoma; Precursor B-Cell Lymphoblastic Leukemia-Lymphoma
BRD4	Carcinoma; Carcinoma, Squamous Cell; Ovarian Neoplasms
BRIP1	Prostatic Intraepithelial Neoplasia; Prostatic Neoplasms
CALR	Myeloproliferative Disorders; Thrombocythemia, Essential
CAMTA1	Carcinoid Tumor; Carcinoma, Embryonal; Carcinoma, Neuroendocrine; Chordoma; Ganglioneuroma; Germinoma; Gonadoblastoma; Hemangioendothelioma, Epithelioid; Mesonephroma; Neoplasms; Neurilemmoma; Neurocytoma; Neuroectodermal Tumor, Melanotic; Neuroectodermal Tumors, Primitive; Paraganglioma; Pinealoma; Retinoblastoma; Solid tumor; Teratocarcinoma; Teratoma; Trophoblastic Neoplasms
CCNB3	Sarcoma, Small Cell
CCND1	Breast Neoplasms; Carcinoma, Ductal, Breast; Leukemia, Lymphocytic, Chronic, B-Cell; Lymphoma, Large B-Cell, Diffuse; Lymphoma, Mantle-Cell; Multiple Myeloma; Neoplasms
CCND2	Adenocarcinoma, Bronchiolo-Alveolar; Adenocarcinoma, Mucinous; Adenocarcinoma of Lung; Carcinoma, Non-Small-Cell Lung; Carcinoma, Pancreatic Ductal; Leukemia, Myeloid, Acute; Leukemia, Neutrophilic, Chronic; Lung Neoplasms; Lymphoma, Mantle-Cell; Neoplasms
CCND3	Burkitt Lymphoma; Lymphoma, Large B-Cell, Diffuse; Lymphoma, Mantle-Cell; Urinary Bladder Neoplasms
CCNE1	Breast Neoplasms; Breast Neoplasms, Male; Carcinoma, Ductal, Breast; Inflammatory Breast Neoplasms; Lymphoma, Large B-Cell, Diffuse; Neoplasms; Ovarian Neoplasms; Paget's Disease, Mammary
CD274	Adenocarcinoma, Bronchiolo-Alveolar; Adenocarcinoma of Lung; Carcinoid Tumor; Carcinoma, Embryonal; Carcinoma, Neuroendocrine; Carcinoma, Non-Small-Cell Lung; Carcinoma, Transitional Cell; Chordoma; Esophageal Neoplasms; Ganglioneuroma; Germinoma; Gonadoblastoma; Lung Neoplasms; Lymphoma, B-Cell; Melanoma; Melanoma, Amelanotic; Mesonephroma; Myeloproliferative Disorders; Neoplasms; Neurilemmoma; Neurocytoma; Neuroectodermal Tumor, Melanotic; Neuroectodermal Tumors, Primitive; Nevi and Melanomas; Paraganglioma; Pinealoma; Retinoblastoma; Solid tumor; Squamous Cell Carcinoma of Head and Neck; Stomach Neoplasms; Teratocarcinoma; Teratoma; Triple Negative Breast Neoplasms; Trophoblastic Neoplasms; Ureteral Neoplasms; Urethral Neoplasms; Urinary Bladder Neoplasms; Uterine Cervical Neoplasms; Vulvar Neoplasms
CDH1	Adenocarcinoma, Bronchiolo-Alveolar; Adenocarcinoma, Mucinous; Adenocarcinoma of Lung; Breast Neoplasms; Carcinoma, Non-Small-Cell Lung; Carcinoma, Pancreatic Ductal; Lung Neoplasms; Neoplasms; Stomach Neoplasms
CDK12	Myeloproliferative Disorders; Prostatic Intraepithelial Neoplasia; Prostatic Neoplasms
CDK4	Liposarcoma; Melanoma; Melanoma, Amelanotic; Nevi and Melanomas; Uterine Neoplasms
CDK6	Breast Neoplasms; Breast Neoplasms, Male; Carcinoma, Ductal, Breast; Inflammatory Breast Neoplasms; Leukemia, Biphenotypic, Acute; Leukemia, Myeloid, Acute; Leukemia, Myelomonocytic, Acute; Melanoma; Melanoma, Amelanotic; Neoplasms; Nevi and Melanomas; Paget's Disease, Mammary; Precursor Cell Lymphoblastic Leukemia-Lymphoma; Precursor T-Cell Lymphoblastic Leukemia-Lymphoma; Triple Negative Breast Neoplasms
CDKN2A	Breast Neoplasms; Carcinoma, Ductal, Breast; Carcinoma, Pancreatic Ductal; Cholangiocarcinoma; Head and Neck Neoplasms; Lymphoma, B-Cell; Meningioma; Mesothelioma; Neoplasms; Ovarian Neoplasms; Pancreatic Neoplasms; Precursor B-Cell Lymphoblastic Leukemia-Lymphoma; Precursor Cell Lymphoblastic Leukemia-Lymphoma; Triple Negative Breast Neoplasms
CDKN2B	Carcinoma, Renal Cell; Carcinoma, Squamous Cell; Cholangiocarcinoma; Esophageal Neoplasms; Kidney Neoplasms; Neoplasms; Ovarian Neoplasms
CHEK1	Prostatic Intraepithelial Neoplasia; Prostatic Neoplasms

Gene	Associated Diseases
CHEK2	Adenocarcinoma, Bronchiolo-Alveolar; Adenocarcinoma, Follicular; Adenocarcinoma of Lung; Adenocarcinoma, Papillary; Brain Neoplasms; Breast Neoplasms; Breast Neoplasms, Male; Carcinoma, Ductal, Breast; Carcinoma, Non-Small-Cell Lung; Carcinoma, Papillary, Follicular; Carcinoma, Transitional Cell; Colonic Neoplasms; Colorectal Neoplasms; Inflammatory Breast Neoplasms; Kidney Neoplasms; Lung Neoplasms; Neoplasms; Ovarian Neoplasms; Paget's Disease, Mammary; Prostatic Intraepithelial Neoplasia; Prostatic Neoplasms; Rectal Neoplasms; Sarcoma; Stomach Neoplasms; Thyroid Neoplasms; Triple Negative Breast Neoplasms; Ureteral Neoplasms; Urethral Neoplasms; Urinary Bladder Neoplasms
CIC	Carcinoma; Oligodendroglioma; Sarcoma
CREBBP	Glioma; Leukemia; Leukemia, Biphenotypic, Acute; Leukemia, Myeloid, Acute; Leukemia, Myelomonocytic, Acute; Lymphoma, Follicular; Lymphoma, Large B-Cell, Diffuse; Neoplasms; Precursor B-Cell Lymphoblastic Leukemia-Lymphoma; Precursor Cell Lymphoblastic Leukemia-Lymphoma; Rubinstein-Taybi Syndrome; Sarcoma; Sarcoma, Endometrial Stromal
CSF1	Giant Cell Tumor of Tendon Sheath
CSF1R	Erdheim-Chester Disease; Leukemia; Leukemia, B-Cell; Leukemia, Megakaryoblastic, Acute; Leukemia, Myeloid, Acute; Neoplasms; Precursor B-Cell Lymphoblastic Leukemia-Lymphoma; Precursor Cell Lymphoblastic Leukemia-Lymphoma
CTNNB1	Adenoma, Pleomorphic; Desmoid Tumors; Endometrial Neoplasms; Medulloblastoma; Melanoma; Melanoma, Amelanotic; Nevi and Melanomas
DAXX	Adenoma, Islet Cell; Carcinoma, Islet Cell
DDR2	Carcinoid Tumor; Carcinoma, Embryonal; Carcinoma, Neuroendocrine; Chordoma; Ganglioneuroma; Germinoma; Gonadoblastoma; Lung Neoplasms; Mesonephroma; Neoplasms, Squamous Cell; Neurilemmoma; Neurocytoma; Neuroectodermal Tumor, Melanotic; Neuroectodermal Tumors, Primitive; Paraganglioma; Pinealoma; Retinoblastoma; Solid tumor; Teratocarcinoma; Teratoma; Trophoblastic Neoplasms
DDX3X	Lymphoma, Non-Hodgkin; Medulloblastoma; Precursor T-Cell Lymphoblastic Leukemia-Lymphoma
DICER1	Rhabdomyosarcoma, Embryonal
DNAJB1	Bile Duct Neoplasms; Carcinoma, Hepatocellular; Liver Neoplasms; Pancreatic Neoplasms
EGFR	Adenocarcinoma, Bronchiolo-Alveolar; Adenocarcinoma of Lung; Carcinoma, Non-Small-Cell Lung; Colonic Neoplasms; Colorectal Neoplasms; Esophageal Neoplasms; Glioblastoma; Glioma; Lung Neoplasms; Neoplasms; Rectal Neoplasms; Stomach Neoplasms
EIF1AX	Adenocarcinoma, Follicular; Adenocarcinoma, Papillary; Carcinoma, Papillary, Follicular; Thyroid Neoplasms; Uveal Neoplasms
EP300	Glioma; Leukemia, Biphenotypic, Acute; Leukemia, Myeloid, Acute; Leukemia, Myelomonocytic, Acute; Lymphoma, Follicular; Lymphoma, Large B-Cell, Diffuse; Myelodysplastic Syndromes; Neoplasms; Precursor B-Cell Lymphoblastic Leukemia-Lymphoma; Precursor Cell Lymphoblastic Leukemia-Lymphoma; Rubinstein-Taybi Syndrome; Sarcoma, Endometrial Stromal
EPC1	Sarcoma, Endometrial Stromal
EPCAM	Carcinoid Tumor; Carcinoma, Embryonal; Carcinoma, Neuroendocrine; Chordoma; Colorectal Neoplasms, Hereditary Nonpolyposis; Ganglioneuroma; Germinoma; Gonadoblastoma; Mesonephroma; Neurilemmoma; Neurocytoma; Neuroectodermal Tumor, Melanotic; Neuroectodermal Tumors, Primitive; Paraganglioma; Pinealoma; Retinoblastoma; Solid tumor; Teratocarcinoma; Teratoma; Trophoblastic Neoplasms
ERBB2	Adenocarcinoma, Bronchiolo-Alveolar; Adenocarcinoma of Lung; Biliary Tract Neoplasms; Breast Neoplasms; Breast Neoplasms, Male; Carcinoid Tumor; Carcinoma, Ductal, Breast; Carcinoma, Embryonal; Carcinoma, Neuroendocrine; Carcinoma, Non-Small-Cell Lung; Carcinoma, Transitional Cell; Cholangiocarcinoma; Chordoma; Colonic Neoplasms; Colorectal Neoplasms; Endometrial Neoplasms; Esophageal Neoplasms; Ganglioneuroma; Germinoma; Gonadoblastoma; Inflammatory Breast Neoplasms; Lung Neoplasms; Mesonephroma; Neoplasms; Neurilemmoma; Neurocytoma; Neuroectodermal Tumor, Melanotic; Neuroectodermal Tumors, Primitive; Paget's Disease, Mammary; Paraganglioma; Pinealoma; Rectal Neoplasms; Retinoblastoma; Salivary Gland Neoplasms; Solid tumor; Stomach Neoplasms; Teratocarcinoma; Teratoma; Trophoblastic Neoplasms; Ureteral Neoplasms; Urethral Neoplasms; Urinary Bladder Neoplasms; Uterine Cervical Neoplasms
ERBB3	Adenocarcinoma, Bronchiolo-Alveolar; Adenocarcinoma of Lung; Breast Neoplasms; Breast Neoplasms, Male; Carcinoid Tumor; Carcinoma, Ductal, Breast; Carcinoma, Embryonal; Carcinoma, Neuroendocrine; Carcinoma, Non-Small-Cell Lung; Chordoma; Ganglioneuroma; Germinoma; Gonadoblastoma; Inflammatory Breast Neoplasms; Lung Neoplasms; Mesonephroma; Neoplasms; Neurilemmoma; Neurocytoma; Neuroectodermal Tumor, Melanotic; Neuroectodermal Tumors, Primitive; Paget's Disease, Mammary; Paraganglioma; Pinealoma; Retinoblastoma; Solid tumor; Teratocarcinoma; Teratoma; Trophoblastic Neoplasms
ERBB4	Breast Neoplasms; Breast Neoplasms, Male; Carcinoma, Ductal, Breast; Carcinoma, Squamous Cell; Head and Neck Neoplasms; Inflammatory Breast Neoplasms; Lung Neoplasms; Lymphoma, T-Cell, Peripheral; Melanoma; Melanoma, Amelanotic; Neoplasms; Nevi and Melanomas; Paget's Disease, Mammary
ERCC1	Adenocarcinoma, Bronchiolo-Alveolar; Adenocarcinoma of Lung; Carcinoma, Non-Small-Cell Lung; Lung Neoplasms; Neoplasms; Ovarian Neoplasms
ERCC2	Carcinoma, Transitional Cell; Neoplasms; Urinary Bladder Neoplasms
ERG	Leukemia, Myeloid, Acute; Neuroectodermal Tumors, Primitive, Peripheral; Prostatic Neoplasms; Sarcoma, Ewing
ESR1	Breast Neoplasms; Breast Neoplasms, Male; Carcinoma, Ductal, Breast; Inflammatory Breast Neoplasms; Paget's Disease, Mammary; Sarcoma; Uterine Neoplasms
ESRRA	Precursor B-Cell Lymphoblastic Leukemia-Lymphoma
ETV1	Glioma; Melanoma; Melanoma, Amelanotic; Nevi and Melanomas; Prostatic Neoplasms; Sarcoma, Ewing
ETV4	Sarcoma, Ewing

Gene	Associated Diseases
ETV6	Adenocarcinoma, Bronchiolo-Alveolar; Adenocarcinoma, Follicular; Adenocarcinoma of Lung; Adenocarcinoma, Papillary; Carcinoid Tumor; Carcinoma, Embryonal; Carcinoma, Neuroendocrine; Carcinoma, Non-Small-Cell Lung; Carcinoma, Pancreatic Ductal; Carcinoma, Papillary, Follicular; Carcinoma, Transitional Cell; Cholangiocarcinoma; Chordoma; Fibrosarcoma; Ganglioneuroma; Germinoma; Glioma; Gonadoblastoma; Hypereosinophilic Syndrome; Leukemia; Leukemia, B-Cell; Leukemia, Lymphoid; Leukemia, Myeloid; Leukemia, Myeloid, Acute; Leukemia, Myeloid, Chronic, Atypical, BCR-ABL Negative; Lung Neoplasms; Lymphoma, Large-Cell, Anaplastic; Melanoma; Melanoma, Amelanotic; Mesonephroma; Myelodysplastic-Myeloproliferative Diseases; Myelodysplastic Syndromes; Myeloproliferative Disorders; Neoplasms; Neurilemmoma; Neurocytoma; Neuroectodermal Tumor, Melanotic; Neuroectodermal Tumors, Primitive; Nevi and Melanomas; Pancreatic Neoplasms; Paraganglioma; Pinealoma; Precursor B-Cell Lymphoblastic Leukemia-Lymphoma; Precursor Cell Lymphoblastic Leukemia-Lymphoma; Retinoblastoma; Sarcoma; Soft Tissue Neoplasms; Solid tumor; Teratocarcinoma; Teratoma; Thyroid Neoplasms; Trophoblastic Neoplasms; Ureteral Neoplasms; Urethral Neoplasms; Urinary Bladder Neoplasms
EWSR1	Angiofibroma; Carcinoma, Renal Cell; Chondrosarcoma; Desmoplastic Small Round Cell Tumor; Ependymoma; Fibrosarcoma; Histiocytoma, Malignant Fibrous; Liposarcoma, Myxoid; Mesothelioma; Myoepithelioma; Neoplasms; Neoplasms, Neuroepithelial; Precursor B-Cell Lymphoblastic Leukemia-Lymphoma; Rhabdomyosarcoma; Sarcoma; Sarcoma, Clear Cell; Sarcoma, Ewing; Sarcoma, Small Cell
EZH2	Leukemia, Myeloid, Acute; Lymphoma, B-Cell; Lymphoma, Follicular; Myelodysplastic Syndromes; Neoplasms; Sarcoma
FANCA	Myelodysplastic Syndromes; Neoplasms; Ovarian Neoplasms; Prostatic Intraepithelial Neoplasia; Prostatic Neoplasms
FANCI	Hereditary Breast and Ovarian Cancer Syndrome; Myelodysplastic Syndromes; Ovarian Neoplasms
FANCL	Myelodysplastic Syndromes; Prostatic Intraepithelial Neoplasia; Prostatic Neoplasms
FBXW7	Adenocarcinoma, Bronchiolo-Alveolar; Adenocarcinoma of Lung; Breast Neoplasms; Breast Neoplasms, Male; Carcinoma, Ductal, Breast; Carcinoma, Non-Small-Cell Lung; Colonic Neoplasms; Colorectal Neoplasms; Inflammatory Breast Neoplasms; Lung Neoplasms; Neoplasms; Paget's Disease, Mammary; Precursor T-Cell Lymphoblastic Leukemia-Lymphoma; Rectal Neoplasms; Rhabdomyosarcoma, Embryonal
FGF1	Ovarian Neoplasms
FGF19	Breast Neoplasms; Carcinoma, Hepatocellular; Esophageal Neoplasms; Head and Neck Neoplasms; Lung Neoplasms; Prostatic Neoplasms
FGFR1	Adenocarcinoma, Bronchiolo-Alveolar; Adenocarcinoma, Mucinous; Adenocarcinoma of Lung; Adenoma, Pleomorphic; Breast Neoplasms; Breast Neoplasms, Male; Carcinoid Tumor; Carcinoma, Ductal, Breast; Carcinoma, Embryonal; Carcinoma, Neuroendocrine; Carcinoma, Non-Small-Cell Lung; Carcinoma, Pancreatic Ductal; Carcinoma, Squamous Cell; Chordoma; Ganglioneuroma; Germinoma; Glioma; Gonadoblastoma; Inflammatory Breast Neoplasms; Lung Neoplasms; Mesonephroma; Myeloproliferative Disorders; Neoplasms; Neurilemmoma; Neurocytoma; Neuroectodermal Tumor, Melanotic; Neuroectodermal Tumors, Primitive; Paget's Disease, Mammary; Paraganglioma; Pinealoma; Retinoblastoma; Solid tumor; Teratocarcinoma; Teratoma; Trophoblastic Neoplasms
FGFR2	Breast Neoplasms; Breast Neoplasms, Male; Carcinoma, Ductal, Breast; Carcinoma, Pancreatic Ductal; Carcinoma, Squamous Cell; Cholangiocarcinoma; Endometrial Neoplasms; Inflammatory Breast Neoplasms; Leukemia, Lymphoid; Leukemia, Myeloid; Lung Neoplasms; Neoplasms; Paget's Disease, Mammary; Pancreatic Neoplasms; Squamous Cell Carcinoma of Head and Neck; Stomach Neoplasms
FGFR3	Brain Neoplasms; Breast Neoplasms; Breast Neoplasms, Male; Carcinoma, Ductal, Breast; Carcinoma, Transitional Cell; Cholangiocarcinoma; Colonic Neoplasms; Colorectal Neoplasms; Glioma; Inflammatory Breast Neoplasms; Neoplasms; Paget's Disease, Mammary; Rectal Neoplasms; Ureteral Neoplasms; Urethral Neoplasms; Urinary Bladder Neoplasms; Uterine Cervical Neoplasms
FGFR4	Adenocarcinoma; Breast Neoplasms; Breast Neoplasms, Male; Carcinoma, Ductal, Breast; Inflammatory Breast Neoplasms; Neoplasms; Paget's Disease, Mammary; Precursor B-Cell Lymphoblastic Leukemia-Lymphoma; Rhabdomyosarcoma
FH	Carcinoma, Renal Cell; Leiomyomatosis
FLCN	Carcinoma, Renal Cell; Kidney Neoplasms
FLT3	Leukemia, Lymphoid; Leukemia, Myeloid; Leukemia, Myeloid, Acute
FLT4	Hemangiosarcoma
FOSB	Hemangioendothelioma
FOXA1	Adenocarcinoma, Bronchiolo-Alveolar; Adenocarcinoma, Mucinous; Adenocarcinoma of Lung; Carcinoma, Non-Small-Cell Lung; Carcinoma, Pancreatic Ductal; Lung Neoplasms; Neoplasms
FOXL2	Granulosa Cell Tumor; Sex Cord-Gonadal Stromal Tumors
FOXO1	Lymphoma, Large B-Cell, Diffuse; Myelodysplastic-Myeloproliferative Diseases; Myelodysplastic Syndromes; Myeloproliferative Disorders; Neoplasms; Precursor B-Cell Lymphoblastic Leukemia-Lymphoma; Precursor Cell Lymphoblastic Leukemia-Lymphoma; Rhabdomyosarcoma, Alveolar
FOXO4	Leukemia, Biphenotypic, Acute; Leukemia, Myeloid, Acute; Leukemia, Myelomonocytic, Acute; Neoplasms; Precursor Cell Lymphoblastic Leukemia-Lymphoma; Rhabdomyosarcoma, Alveolar; Sarcoma
FOXR2	Sarcoma
FUBP1	Carcinoma, Renal Cell; Oligodendroglioma; Prostatic Neoplasms
FUS	Leukemia, Myeloid, Acute; Liposarcoma, Myxoid; Myoepithelioma; Neuroectodermal Tumors, Primitive, Peripheral; Rhabdomyosarcoma; Sarcoma; Sarcoma, Ewing; Sarcoma, Small Cell
GLI1	Myofibroma; Myopericytoma; Stomach Neoplasms

Gene	Associated Diseases
GNA11	Adenocarcinoma, Bronchiolo-Alveolar; Adenocarcinoma of Lung; Carcinoma, Non-Small-Cell Lung; Glioma; Lung Neoplasms; Melanoma; Melanoma, Amelanotic; Neoplasms; Nevi and Melanomas; Sarcoma; Uveal Neoplasms
GNAQ	Carcinoid Tumor; Carcinoma, Embryonal; Carcinoma, Neuroendocrine; Chordoma; Ganglioneuroma; Germinoma; Gonadoblastoma; Melanoma; Mesonephroma; Neoplasms; Neurilemmoma; Neurocytoma; Neuroectodermal Tumor, Melanotic; Neuroectodermal Tumors, Primitive; Paraganglioma; Pinealoma; Retinoblastoma; Solid tumor; Teratocarcinoma; Teratoma; Trophoblastic Neoplasms; Uveal Neoplasms
GNAS	Appendiceal Neoplasms; Leukemia, Myeloid, Acute; Myelodysplastic-Myeloproliferative Diseases
H3-3A	Astrocytoma; Brain Stem Neoplasms; Diffuse Intrinsic Pontine Glioma; Glioblastoma; Glioma; Spinal Cord Neoplasms
HIST1H3B	Astrocytoma; Brain Stem Neoplasms; Diffuse Intrinsic Pontine Glioma; Glioblastoma; Glioma; Spinal Cord Neoplasms
HMGA2	Adenocarcinoma, Bronchiolo-Alveolar; Adenocarcinoma of Lung; Adenoma, Pleomorphic; Carcinoma, Non-Small-Cell Lung; Chondroma; Hemangioendothelioma, Epithelioid; Leiomyoma; Leiomyosarcoma; Lipoma; Lung Neoplasms; Neoplasms; Perivascular Epithelioid Cell Neoplasms; Salivary Gland Neoplasms
HNF1A	Neoplasms
HRAS	Adenocarcinoma, Bronchiolo-Alveolar; Adenocarcinoma, Follicular; Adenocarcinoma of Lung; Adenocarcinoma, Papillary; Carcinoma, Non-Small-Cell Lung; Carcinoma, Papillary, Follicular; Carcinoma, Squamous Cell; Carcinoma, Transitional Cell; Colonic Neoplasms; Colorectal Neoplasms; Esophageal Neoplasms; Lung Neoplasms; Neoplasms; Rectal Neoplasms; Skin Neoplasms; Squamous Cell Carcinoma of Head and Neck; Thyroid Neoplasms; Ureteral Neoplasms; Urethral Neoplasms; Urinary Bladder Neoplasms
IDH1	Astrocytoma; Cholangiocarcinoma; Glioma; Leukemia, Myeloid, Acute; Myelodysplastic Syndromes; Neoplasms; Oligodendroglioma
IDH2	Astrocytoma; Glioma; Leukemia, Myeloid, Acute; Oligodendroglioma
IGF1R	Adenocarcinoma, Bronchiolo-Alveolar; Adenocarcinoma of Lung; Carcinoid Tumor; Carcinoma, Embryonal; Carcinoma, Neuroendocrine; Carcinoma, Non-Small-Cell Lung; Chordoma; Ganglioneuroma; Gastrointestinal Stromal Tumors; Germinoma; Gonadoblastoma; Lung Neoplasms; Mesonephroma; Neoplasms; Neurilemmoma; Neurocytoma; Neuroectodermal Tumor, Melanotic; Neuroectodermal Tumors, Primitive; Paraganglioma; Pinealoma; Retinoblastoma; Soft Tissue Neoplasms; Solid tumor; Teratocarcinoma; Teratoma; Trophoblastic Neoplasms; Wilms Tumor
JAK1	Leukemia; Leukemia, Biphenotypic, Acute; Leukemia, Myeloid, Acute; Leukemia, Myelomonocytic, Acute; Melanoma; Melanoma, Amelanotic; Neoplasms; Nevi and Melanomas; Precursor Cell Lymphoblastic Leukemia-Lymphoma; Sezary Syndrome
JAK2	Myelodysplastic Syndromes; Myeloproliferative Disorders; Neoplasms; Precursor B-Cell Lymphoblastic Leukemia-Lymphoma; Precursor Cell Lymphoblastic Leukemia-Lymphoma
JAK3	Lymphoma, Extranodal NK-T-Cell; Lymphoma, Non-Hodgkin; Neoplasms; Precursor Cell Lymphoblastic Leukemia-Lymphoma; Precursor T-Cell Lymphoblastic Leukemia-Lymphoma
JAZF1	Endometrial Neoplasms; Sarcoma, Endometrial Stromal; Uterine Cervical Neoplasms; Uterine Neoplasms
KDM6A	Leukemia; Leukemia, Myeloid, Acute; Multiple Myeloma; Precursor B-Cell Lymphoblastic Leukemia-Lymphoma; Urinary Bladder Neoplasms
KDR	Carcinoma, Basal Cell; Colonic Neoplasms; Colorectal Neoplasms; Myelodysplastic-Myeloproliferative Diseases; Myelodysplastic Syndromes; Myeloproliferative Disorders; Neoplasms; Rectal Neoplasms; Sarcoma; Soft Tissue Neoplasms
KEAP1	Adenocarcinoma, Bronchiolo-Alveolar; Adenocarcinoma of Lung; Carcinoma, Non-Small-Cell Lung; Lung Neoplasms; Squamous Cell Carcinoma of Head and Neck
KIT	Adenocarcinoma, Bronchiolo-Alveolar; Adenocarcinoma of Lung; Carcinoma, Non-Small-Cell Lung; Desmoid Tumors; Gastrointestinal Stromal Tumors; Leukemia, Mast-Cell; Leukemia, Myeloid, Acute; Lung Neoplasms; Mastocytosis, Systemic; Melanoma; Melanoma, Amelanotic; Myelodysplastic-Myeloproliferative Diseases; Myelodysplastic Syndromes; Myeloproliferative Disorders; Neoplasms; Nevi and Melanomas; Thymus Neoplasms
KLF4	Meningioma
KMT2C	Breast Neoplasms; Breast Neoplasms, Male; Carcinoma, Ductal, Breast; Carcinoma, Transitional Cell; Colorectal Neoplasms; Endometrial Neoplasms; Inflammatory Breast Neoplasms; Leukemia, Myeloid, Acute; Lung Neoplasms; Melanoma; Paget's Disease, Mammary; Stomach Neoplasms; Ureteral Neoplasms; Urethral Neoplasms; Urinary Bladder Neoplasms
KMT2D	Lung Neoplasms; Sarcoma, Endometrial Stromal; Sarcoma, Small Cell
KRAS	Adenocarcinoma, Bronchiolo-Alveolar; Adenocarcinoma, Follicular; Adenocarcinoma, Mucinous; Adenocarcinoma of Lung; Adenocarcinoma, Papillary; Carcinoma, Non-Small-Cell Lung; Carcinoma, Pancreatic Ductal; Carcinoma, Papillary, Follicular; Colonic Neoplasms; Colorectal Neoplasms; Endometrial Neoplasms; Erdheim-Chester Disease; Gastrointestinal Stromal Tumors; Histiocytic Sarcoma; Leukemia, Biphenotypic, Acute; Leukemia, Myeloid, Acute; Leukemia, Myelomonocytic, Acute; Lung Neoplasms; Lymphoma, Large-Cell, Anaplastic; Multiple Myeloma; Neoplasms; Ovarian Neoplasms; Pancreatic Neoplasms; Precursor Cell Lymphoblastic Leukemia-Lymphoma; Rectal Neoplasms; Stomach Neoplasms; Thyroid Neoplasms
LZTR1	Nerve Sheath Neoplasms
MAML2	Astrocytoma; Ependymoma; Leukemia, Biphenotypic, Acute; Leukemia, Myeloid, Acute; Leukemia, Myelomonocytic, Acute; Neoplasms; Precursor Cell Lymphoblastic Leukemia-Lymphoma; Supratentorial Neoplasms
MAP2K1	Adenocarcinoma, Bronchiolo-Alveolar; Adenocarcinoma of Lung; Carcinoma, Non-Small-Cell Lung; Colonic Neoplasms; Colorectal Neoplasms; Erdheim-Chester Disease; Histiocytosis, Langerhans-Cell; Leukemia, Hairy Cell; Lung Neoplasms; Melanoma; Melanoma, Amelanotic; Neoplasms; Nevi and Melanomas; Ovarian Neoplasms; Rectal Neoplasms; Squamous Cell Carcinoma of Head and Neck; Stomach Neoplasms
MAP2K2	Colonic Neoplasms; Colorectal Neoplasms; Erdheim-Chester Disease; Glioma; Histiocytosis, Langerhans-Cell; Melanoma; Melanoma, Amelanotic; Neoplasms; Nevi and Melanomas; Rectal Neoplasms

Gene	Associated Diseases
MAP3K1	Breast Neoplasms; Breast Neoplasms, Male; Carcinoid Tumor; Carcinoma, Ductal, Breast; Carcinoma, Embryonal; Carcinoma, Neuroendocrine; Chordoma; Ganglioneuroma; Germinoma; Gonadoblastoma; Inflammatory Breast Neoplasms; Mesonephroma; Neurilemmoma; Neurocytoma; Neuroectodermal Tumor, Melanotic; Neuroectodermal Tumors, Primitive; Paget's Disease, Mammary; Paraganglioma; Pinealoma; Retinoblastoma; Teratocarcinoma; Teratoma; Triple Negative Breast Neoplasms; Trophoblastic Neoplasms
MBTD1	Sarcoma; Sarcoma, Endometrial Stromal
MDM2	Adenocarcinoma, Bronchiolo-Alveolar; Adenocarcinoma of Lung; Carcinoid Tumor; Carcinoma, Embryonal; Carcinoma, Neuroendocrine; Carcinoma, Non-Small-Cell Lung; Cholangiocarcinoma; Chordoma; Common Bile Duct Neoplasms; Ganglioneuroma; Germinoma; Gonadoblastoma; Liposarcoma; Lung Neoplasms; Mesonephroma; Neoplasms; Neurilemmoma; Neurocytoma; Neuroectodermal Tumor, Melanotic; Neuroectodermal Tumors, Primitive; Osteosarcoma; Pancreatic Neoplasms; Paraganglioma; Pinealoma; Retinoblastoma; Solid tumor; Teratocarcinoma; Teratoma; Trophoblastic Neoplasms; Uterine Neoplasms
MDM4	Carcinoid Tumor; Carcinoma, Embryonal; Carcinoma, Neuroendocrine; Chordoma; Ganglioneuroma; Germinoma; Gonadoblastoma; Mesonephroma; Neoplasms; Neurilemmoma; Neurocytoma; Neuroectodermal Tumor, Melanotic; Neuroectodermal Tumors, Primitive; Paraganglioma; Pinealoma; Retinoblastoma; Solid tumor; Teratocarcinoma; Teratoma; Trophoblastic Neoplasms
MEAF6	Sarcoma, Endometrial Stromal
MED12	Leiomyoma; Sarcoma
MEF2D	Carcinoid Tumor; Carcinoma, Embryonal; Carcinoma, Neuroendocrine; Chordoma; Ganglioneuroma; Germinoma; Gonadoblastoma; Mesonephroma; Neurilemmoma; Neurocytoma; Neuroectodermal Tumor, Melanotic; Neuroectodermal Tumors, Primitive; Paraganglioma; Pinealoma; Precursor B-Cell Lymphoblastic Leukemia-Lymphoma; Precursor Cell Lymphoblastic Leukemia-Lymphoma; Retinoblastoma; Sarcoma; Solid tumor; Teratocarcinoma; Teratoma; Trophoblastic Neoplasms
MEN1	Leukemia, Biphenotypic, Acute; Leukemia, Myeloid, Acute; Leukemia, Myelomonocytic, Acute; Neoplasms; Precursor Cell Lymphoblastic Leukemia-Lymphoma
MET	Adenocarcinoma, Bronchiolo-Alveolar; Adenocarcinoma of Lung; Breast Neoplasms; Carcinoma, Non-Small-Cell Lung; Carcinoma, Renal Cell; Carcinoma, Squamous Cell; Colonic Neoplasms; Colorectal Neoplasms; Head and Neck Neoplasms; Kidney Neoplasms; Lung Neoplasms; Neoplasms; Rectal Neoplasms; Stomach Neoplasms; Triple Negative Breast Neoplasms
MLH1	Carcinoid Tumor; Carcinoma, Embryonal; Carcinoma, Neuroendocrine; Chordoma; Colonic Neoplasms; Colorectal Neoplasms; Colorectal Neoplasms, Hereditary Nonpolyposis; Ganglioneuroma; Germinoma; Gonadoblastoma; Mesonephroma; Neoplasms; Neurilemmoma; Neurocytoma; Neuroectodermal Tumor, Melanotic; Neuroectodermal Tumors, Primitive; Paraganglioma; Pinealoma; Prostatic Intraepithelial Neoplasia; Prostatic Neoplasms; Rectal Neoplasms; Retinoblastoma; Solid tumor; Teratocarcinoma; Teratoma; Trophoblastic Neoplasms
MPL	Primary Myelofibrosis
MRE11	Prostatic Neoplasms
MSH2	Carcinoid Tumor; Carcinoma, Embryonal; Carcinoma, Neuroendocrine; Chordoma; Colorectal Neoplasms, Hereditary Nonpolyposis; Ganglioneuroma; Germinoma; Gonadoblastoma; Mesonephroma; Neoplasms; Neurilemmoma; Neurocytoma; Neuroectodermal Tumor, Melanotic; Neuroectodermal Tumors, Primitive; Paraganglioma; Pinealoma; Retinoblastoma; Solid tumor; Teratocarcinoma; Teratoma; Trophoblastic Neoplasms
MSH3	Colorectal Neoplasms, Hereditary Nonpolyposis
MSH6	Carcinoid Tumor; Carcinoma, Embryonal; Carcinoma, Neuroendocrine; Chordoma; Colorectal Neoplasms, Hereditary Nonpolyposis; Ganglioneuroma; Germinoma; Glioblastoma; Gonadoblastoma; Mesonephroma; Neoplasms; Neurilemmoma; Neurocytoma; Neuroectodermal Tumor, Melanotic; Neuroectodermal Tumors, Primitive; Paraganglioma; Pinealoma; Retinoblastoma; Solid tumor; Teratocarcinoma; Teratoma; Trophoblastic Neoplasms
MTAP	Carcinoma, Non-Small-Cell Lung; Cholangiocarcinoma; Gallbladder Neoplasms; Melanoma; Melanoma, Amelanotic; Mesothelioma; Nevi and Melanomas
MTOR	Adenocarcinoma, Bronchiolo-Alveolar; Adenocarcinoma of Lung; Breast Neoplasms; Breast Neoplasms, Male; Carcinoid Tumor; Carcinoma, Ductal, Breast; Carcinoma, Embryonal; Carcinoma, Neuroendocrine; Carcinoma, Non-Small-Cell Lung; Carcinoma, Renal Cell; Carcinoma, Transitional Cell; Chordoma; Ganglioneuroma; Germinoma; Gonadoblastoma; Inflammatory Breast Neoplasms; Kidney Neoplasms; Lung Neoplasms; Mesonephroma; Neoplasms; Neurilemmoma; Neurocytoma; Neuroectodermal Tumor, Melanotic; Neuroectodermal Tumors, Primitive; Paget's Disease, Mammary; Paraganglioma; Pinealoma; Retinoblastoma; Solid tumor; Teratocarcinoma; Teratoma; Thyroid Neoplasms; Trophoblastic Neoplasms; Ureteral Neoplasms; Urethral Neoplasms; Urinary Bladder Neoplasms
MUTYH	Colonic Neoplasms; Colorectal Neoplasms; Neoplasms; Rectal Neoplasms
MYB	Astrocytoma; Carcinoma, Adenoid Cystic; Glioma; Leukemia, Basophilic, Acute; Lymphoma, Large-Cell, Anaplastic; Precursor Cell Lymphoblastic Leukemia-Lymphoma; Precursor T-Cell Lymphoblastic Leukemia-Lymphoma; Salivary Gland Neoplasms
MYBL1	Adenosarcoma; Astrocytoma; Carcinoma, Adenoid Cystic; Salivary Gland Neoplasms; Uterine Neoplasms
MYC	Adenocarcinoma, Bronchiolo-Alveolar; Adenocarcinoma of Lung; Carcinoma, Non-Small-Cell Lung; Hemangiosarcoma; Lung Neoplasms; Lymphoma, B-Cell; Lymphoma, Large B-Cell, Diffuse
MYCN	Ependymoma
MYOD1	Rhabdomyosarcoma
NBN	Neoplasms; Ovarian Neoplasms; Prostatic Intraepithelial Neoplasia; Prostatic Neoplasms
NCOA1	Adenocarcinoma, Bronchiolo-Alveolar; Adenocarcinoma of Lung; Breast Neoplasms; Breast Neoplasms, Male; Carcinoma, Ductal, Breast; Carcinoma, Non-Small-Cell Lung; Inflammatory Breast Neoplasms; Lung Neoplasms; Lymphoma, Large-Cell, Anaplastic; Neoplasms; Paget's Disease, Mammary; Rhabdomyosarcoma; Rhabdomyosarcoma, Alveolar; Sarcoma; Soft Tissue Neoplasms; Uterine Neoplasms

Gene	Associated Diseases
NCOA2	Adenocarcinoma, Bronchiolo-Alveolar; Adenocarcinoma, Mucinous; Adenocarcinoma of Lung; Angiofibroma; Carcinoma, Non-Small-Cell Lung; Carcinoma, Pancreatic Ductal; Chondrosarcoma, Mesenchymal; Lung Neoplasms; Myopericytoma; Neoplasms; Rhabdomyosarcoma; Rhabdomyosarcoma, Alveolar; Sarcoma; Sarcoma, Small Cell; Uterine Neoplasms
NCOA3	Angiofibroma; Myopericytoma; Rhabdomyosarcoma; Sarcoma; Uterine Neoplasms
NF1	Adenocarcinoma, Bronchiolo-Alveolar; Adenocarcinoma of Lung; Carcinoma, Neuroendocrine; Carcinoma, Non-Small-Cell Lung; Gastrointestinal Stromal Tumors; Glioma; Leukemia, Myeloid, Acute; Leukemia, Myelomonocytic, Chronic; Leukemia, Myelomonocytic, Juvenile; Lung Neoplasms; Melanoma; Melanoma, Amelanotic; Myelodysplastic Syndromes; Neoplasms; Neurofibroma, Plexiform; Neurofibromatosis 1; Neurofibrosarcoma; Nevi and Melanomas; Pheochromocytoma; Polycythemia Vera; Primary Myelofibrosis; Rhabdomyosarcoma, Embryonal; Thrombocythemia, Essential
NF2	Meningioma; Mesothelioma; Neoplasms; Neurofibromatosis 2
NFATC2	Sarcoma, Small Cell
NFE2L2	Adenocarcinoma, Bronchiolo-Alveolar; Adenocarcinoma of Lung; Carcinoma, Non-Small-Cell Lung; Esophageal Squamous Cell Carcinoma; Lung Neoplasms; Neoplasms
NFIB	Adenoma, Pleomorphic; Carcinoma, Adenoid Cystic; Lipoma; Salivary Gland Neoplasms
NKX2-1	Adenocarcinoma, Bronchiolo-Alveolar; Adenocarcinoma of Lung; Carcinoma, Non-Small-Cell Lung; Lung Neoplasms; Precursor T-Cell Lymphoblastic Leukemia-Lymphoma
NOTCH1	Adenocarcinoma, Bronchiolo-Alveolar; Adenocarcinoma of Lung; Carcinoid Tumor; Carcinoma, Embryonal; Carcinoma, Neuroendocrine; Carcinoma, Non-Small-Cell Lung; Carcinoma, Squamous Cell; Chordoma; Ganglioneuroma; Germinoma; Gonadoblastoma; Leukemia; Lung Neoplasms; Lymphoma; Mesonephroma; Neoplasms; Neurilemmoma; Neurocytoma; Neuroectodermal Tumor, Melanotic; Neuroectodermal Tumors, Primitive; Paraganglioma; Pinealoma; Retinoblastoma; Soft Tissue Neoplasms; Solid tumor; Teratocarcinoma; Teratoma; Trophoblastic Neoplasms
NOTCH2	Adenocarcinoma, Bronchiolo-Alveolar; Adenocarcinoma, Mucinous; Adenocarcinoma of Lung; Carcinoma, Non-Small-Cell Lung; Carcinoma, Pancreatic Ductal; Giant Cell Tumor of Tendon Sheath; Lung Neoplasms; Lymphoma; Neoplasms
NOTCH3	Carcinoma, Hepatocellular; Neoplasms; Ovarian Neoplasms
NPM1	Adenocarcinoma, Bronchiolo-Alveolar; Adenocarcinoma of Lung; Carcinoma, Non-Small-Cell Lung; Carcinoma, Pancreatic Ductal; Cholangiocarcinoma; Leukemia, Myeloid, Acute; Leukemia, Promyelocytic, Acute; Lung Neoplasms; Lymphoma, Large-Cell, Anaplastic; Neoplasms; Pancreatic Neoplasms; Precursor Cell Lymphoblastic Leukemia-Lymphoma; Soft Tissue Neoplasms
NR4A3	Chondrosarcoma; Leiomyosarcoma
NRAS	Adenocarcinoma; Adenocarcinoma, Bronchiolo-Alveolar; Adenocarcinoma, Follicular; Adenocarcinoma of Lung; Adenocarcinoma, Papillary; Breast Neoplasms; Breast Neoplasms, Male; Carcinoma, Ductal, Breast; Carcinoma, Non-Small-Cell Lung; Carcinoma, Papillary, Follicular; Carcinoma, Squamous Cell; Carcinoma, Transitional Cell; Colonic Neoplasms; Colorectal Neoplasms; Inflammatory Breast Neoplasms; Leukemia, Myeloid; Leukemia, Myeloid, Acute; Lung Neoplasms; Melanoma; Melanoma, Amelanotic; Neoplasms; Nevi and Melanomas; Paget's Disease, Mammary; Rectal Neoplasms; Squamous Cell Carcinoma of Head and Neck; Thyroid Neoplasms; Triple Negative Breast Neoplasms; Ureteral Neoplasms; Urethral Neoplasms; Urinary Bladder Neoplasms
NRG1	Adenocarcinoma, Bronchiolo-Alveolar; Adenocarcinoma, Mucinous; Adenocarcinoma of Lung; Carcinoid Tumor; Carcinoma, Embryonal; Carcinoma, Neuroendocrine; Carcinoma, Non-Small-Cell Lung; Carcinoma, Pancreatic Ductal; Chordoma; Ganglioneuroma; Germinoma; Gonadoblastoma; Lung Neoplasms; Mesonephroma; Myeloproliferative Disorders; Neoplasms; Neurilemmoma; Neurocytoma; Neuroectodermal Tumor, Melanotic; Neuroectodermal Tumors, Primitive; Paraganglioma; Pinealoma; Retinoblastoma; Solid tumor; Teratocarcinoma; Teratoma; Trophoblastic Neoplasms
NTRK1	Carcinoid Tumor; Carcinoma, Embryonal; Carcinoma, Neuroendocrine; Chordoma; Ganglioneuroma; Germinoma; Gonadoblastoma; Mesonephroma; Neurilemmoma; Neurocytoma; Neuroectodermal Tumor, Melanotic; Neuroectodermal Tumors, Primitive; Paraganglioma; Pinealoma; Retinoblastoma; Sarcoma; Solid tumor; Teratocarcinoma; Teratoma; Trophoblastic Neoplasms
NTRK2	Adenocarcinoma, Bronchiolo-Alveolar; Adenocarcinoma, Mucinous; Adenocarcinoma of Lung; Carcinoid Tumor; Carcinoma, Embryonal; Carcinoma, Neuroendocrine; Carcinoma, Non-Small-Cell Lung; Carcinoma, Pancreatic Ductal; Chordoma; Ganglioneuroma; Germinoma; Gonadoblastoma; Lung Neoplasms; Mesonephroma; Neoplasms; Neurilemmoma; Neurocytoma; Neuroectodermal Tumor, Melanotic; Neuroectodermal Tumors, Primitive; Paraganglioma; Pinealoma; Retinoblastoma; Sarcoma; Solid tumor; Teratocarcinoma; Teratoma; Trophoblastic Neoplasms
NTRK3	Carcinoid Tumor; Carcinoma, Embryonal; Carcinoma, Neuroendocrine; Chordoma; Fibrosarcoma; Ganglioneuroma; Germinoma; Gonadoblastoma; Leukemia; Leukemia, Lymphoid; Leukemia, Myeloid; Mesonephroma; Neoplasms; Neurilemmoma; Neurocytoma; Neuroectodermal Tumor, Melanotic; Neuroectodermal Tumors, Primitive; Paraganglioma; Pinealoma; Retinoblastoma; Solid tumor; Teratocarcinoma; Teratoma; Trophoblastic Neoplasms
NUTM1	Carcinoma; Carcinoma, Squamous Cell; Precursor B-Cell Lymphoblastic Leukemia-Lymphoma; Sarcoma
PALB2	Breast Neoplasms; Breast Neoplasms, Male; Carcinoma, Ductal, Breast; Inflammatory Breast Neoplasms; Myelodysplastic Syndromes; Neoplasms; Paget's Disease, Mammary; Pancreatic Neoplasms; Prostatic Intraepithelial Neoplasia; Prostatic Neoplasms
PAX3	Rhabdomyosarcoma, Alveolar
PAX8	Adenocarcinoma, Follicular; Adenocarcinoma, Papillary; Carcinoma, Papillary, Follicular; Thyroid Neoplasms
PBRM1	Carcinoma, Renal Cell; Kidney Neoplasms
PDGFB	Dermatofibrosarcoma

Gene	Associated Diseases
PDGFRA	Central Nervous System Neoplasms; Gastrointestinal Stromal Tumors; Glioma; Hypereosinophilic Syndrome; Leukemia, Lymphoid; Leukemia, Myeloid; Myelodysplastic-Myeloproliferative Diseases; Myelodysplastic Syndromes; Myeloproliferative Disorders; Neoplasms; Neoplasms, Neuroepithelial; Precursor T-Cell Lymphoblastic Leukemia-Lymphoma
PDGFRB	Leukemia, Lymphoid; Leukemia, Myeloid; Myelodysplastic-Myeloproliferative Diseases; Myelodysplastic Syndromes; Myeloproliferative Disorders; Myofibromatosis; Neoplasms; Precursor B-Cell Lymphoblastic Leukemia-Lymphoma; Precursor Cell Lymphoblastic Leukemia-Lymphoma
PHF1	Sarcoma; Sarcoma, Endometrial Stromal
PIK3CA	Abdominal Neoplasms; Adenocarcinoma, Bronchiolo-Alveolar; Adenocarcinoma, Clear Cell; Adenocarcinoma, Follicular; Adenocarcinoma of Lung; Adenocarcinoma, Papillary; Ameloblastoma; Breast Neoplasms; Breast Neoplasms, Male; Carcinoma, Ductal, Breast; Carcinoma, Non-Small-Cell Lung; Carcinoma, Papillary, Follicular; Carcinoma, Transitional Cell; Colonic Neoplasms; Colorectal Neoplasms; Endometrial Neoplasms; Histiocytosis, Langerhans-Cell; Inflammatory Breast Neoplasms; Liposarcoma, Myxoid; Lung Neoplasms; Neoplasms; Ovarian Neoplasms; Paget's Disease, Mammary; Pancreatic Neoplasms; Rectal Neoplasms; Salivary Gland Neoplasms; Squamous Cell Carcinoma of Head and Neck; Thyroid Neoplasms; Triple Negative Breast Neoplasms; Ureteral Neoplasms; Urethral Neoplasms; Urinary Bladder Neoplasms; Uterine Cervical Neoplasms
PIK3CB	Neoplasms
PIK3R1	Breast Neoplasms; Breast Neoplasms, Male; Carcinoma, Ductal, Breast; Colonic Neoplasms; Colorectal Neoplasms; Endometrial Neoplasms; Glioma; Inflammatory Breast Neoplasms; Paget's Disease, Mammary; Rectal Neoplasms
PLAG1	Adenoma, Pleomorphic; Leiomyosarcoma; Lipoblastoma; Myeloproliferative Disorders; Neoplasms
PMS2	Carcinoid Tumor; Carcinoma, Embryonal; Carcinoma, Neuroendocrine; Chordoma; Colorectal Neoplasms, Hereditary Nonpolyposis; Ganglioneuroma; Germinoma; Gonadoblastoma; Mesonephroma; Neoplasms; Neurilemmoma; Neurocytoma; Neuroectodermal Tumor, Melanotic; Neuroectodermal Tumors, Primitive; Paraganglioma; Pinealoma; Retinoblastoma; Solid tumor; Teratocarcinoma; Teratoma; Trophoblastic Neoplasms
POLD1	Adenocarcinoma, Bronchiolo-Alveolar; Adenocarcinoma of Lung; Carcinoma, Non-Small-Cell Lung; Colonic Neoplasms; Colorectal Neoplasms; Endometrial Neoplasms; Lung Neoplasms; Rectal Neoplasms
POLE	Carcinoid Tumor; Carcinoma, Embryonal; Carcinoma, Neuroendocrine; Chordoma; Colonic Neoplasms; Colorectal Neoplasms; Endometrial Neoplasms; Ganglioneuroma; Germinoma; Glioblastoma; Gonadoblastoma; Mesonephroma; Neoplasms; Neurilemmoma; Neurocytoma; Neuroectodermal Tumor, Melanotic; Neuroectodermal Tumors, Primitive; Ovarian Neoplasms; Paraganglioma; Pinealoma; Prostatic Intraepithelial Neoplasia; Prostatic Neoplasms; Rectal Neoplasms; Retinoblastoma; Solid tumor; Teratocarcinoma; Teratoma; Trophoblastic Neoplasms; Uterine Cervical Neoplasms
PPARG	Adenocarcinoma, Follicular; Adenocarcinoma, Papillary; Carcinoma, Papillary, Follicular; Neoplasms; Thyroid Neoplasms
PPP2R1A	Endometrial Neoplasms; Ovarian Neoplasms
PPP2R2A	Lipoblastoma; Neoplasms; Prostatic Intraepithelial Neoplasia; Prostatic Neoplasms
PRDM10	Sarcoma
PRKACA	Bile Duct Neoplasms; Carcinoid Tumor; Carcinoma, Embryonal; Carcinoma, Hepatocellular; Carcinoma, Neuroendocrine; Chordoma; Ganglioneuroma; Germinoma; Gonadoblastoma; Liver Neoplasms; Mesonephroma; Neoplasms; Neurilemmoma; Neurocytoma; Neuroectodermal Tumor, Melanotic; Neuroectodermal Tumors, Primitive; Pancreatic Neoplasms; Paraganglioma; Pinealoma; Retinoblastoma; Solid tumor; Teratocarcinoma; Teratoma; Trophoblastic Neoplasms
PRKCB	Adenocarcinoma, Bronchiolo-Alveolar; Adenocarcinoma of Lung; Carcinoma, Non-Small-Cell Lung; Histiocytoma, Benign Fibrous; Lung Neoplasms; Lymphoma, Large-Cell, Anaplastic; Neoplasms; Soft Tissue Neoplasms
PRKCD	Histiocytoma, Benign Fibrous
PRKD3	Adenocarcinoma, Bronchiolo-Alveolar; Adenocarcinoma of Lung; Carcinoma, Non-Small-Cell Lung; Lung Neoplasms; Lymphoma, Large-Cell, Anaplastic; Neoplasms; Soft Tissue Neoplasms
PTCH1	Adenocarcinoma, Bronchiolo-Alveolar; Adenocarcinoma, Follicular; Adenocarcinoma of Lung; Adenocarcinoma, Papillary; Basal Cell Nevus Syndrome; Carcinoid Tumor; Carcinoma, Basal Cell; Carcinoma, Embryonal; Carcinoma, Neuroendocrine; Carcinoma, Non-Small-Cell Lung; Carcinoma, Papillary, Follicular; Chordoma; Ganglioneuroma; Germinoma; Glioma; Gonadoblastoma; Lung Neoplasms; Medulloblastoma; Mesonephroma; Myofibroma; Myopericytoma; Neoplasms; Neurilemmoma; Neurocytoma; Neuroectodermal Tumor, Melanotic; Neuroectodermal Tumors, Primitive; Paraganglioma; Pinealoma; Retinoblastoma; Skin Neoplasms; Solid tumor; Teratocarcinoma; Teratoma; Thyroid Neoplasms; Trophoblastic Neoplasms
PTEN	Breast Neoplasms; Breast Neoplasms, Male; Carcinoma, Ductal, Breast; Inflammatory Breast Neoplasms; Leiomyosarcoma; Leukemia, Lymphoid; Leukemia, T-Cell; Melanoma; Melanoma, Amelanotic; Neoplasms; Nevi and Melanomas; Paget's Disease, Mammary; Precursor T-Cell Lymphoblastic Leukemia-Lymphoma; Prostatic Neoplasms
PTPN11	Histiocytic Sarcoma; Leukemia, Myeloid, Acute; Leukemia, Myelomonocytic, Juvenile; Neoplasms
RAD50	Neoplasms
RAD51	Adenocarcinoma, Bronchiolo-Alveolar; Adenocarcinoma of Lung; Carcinoma, Non-Small-Cell Lung; Lung Neoplasms; Neoplasms
RAD51B	Carcinoid Tumor; Carcinoma, Embryonal; Carcinoma, Neuroendocrine; Chordoma; Ganglioneuroma; Germinoma; Gonadoblastoma; Leiomyoma; Leiomyosarcoma; Leukemia, Biphenotypic, Acute; Leukemia, Myeloid, Acute; Leukemia, Myelomonocytic, Acute; Lipoblastoma; Mesonephroma; Neoplasms; Neurilemmoma; Neurocytoma; Neuroectodermal Tumor, Melanotic; Neuroectodermal Tumors, Primitive; Paraganglioma; Perivascular Epithelioid Cell Neoplasms; Pinealoma; Precursor Cell Lymphoblastic Leukemia-Lymphoma; Prostatic Intraepithelial Neoplasia; Prostatic Neoplasms; Retinoblastoma; Solid tumor; Teratocarcinoma; Teratoma; Trophoblastic Neoplasms

Gene	Associated Diseases
RAD51C	Adenocarcinoma, Bronchiolo-Alveolar; Adenocarcinoma, Mucinous; Adenocarcinoma of Lung; Breast Neoplasms; Breast Neoplasms, Male; Carcinoma, Ductal, Breast; Carcinoma, Non-Small-Cell Lung; Carcinoma, Pancreatic Ductal; Inflammatory Breast Neoplasms; Lung Neoplasms; Neoplasms; Ovarian Neoplasms; Paget's Disease, Mammary; Prostatic Intraepithelial Neoplasia; Prostatic Neoplasms; Triple Negative Breast Neoplasms
RAD51D	Breast Neoplasms; Breast Neoplasms, Male; Carcinoma, Ductal, Breast; Inflammatory Breast Neoplasms; Ovarian Neoplasms; Paget's Disease, Mammary; Prostatic Intraepithelial Neoplasia; Prostatic Neoplasms; Triple Negative Breast Neoplasms
RAD54L	Choroid Plexus Neoplasms; Prostatic Intraepithelial Neoplasia; Prostatic Neoplasms
RAF1	Adenocarcinoma, Bronchiolo-Alveolar; Adenocarcinoma of Lung; Carcinoma, Non-Small-Cell Lung; Carcinoma, Pancreatic Ductal; Erdheim-Chester Disease; Histiocytosis, Sinus; Lung Neoplasms; Melanoma; Melanoma, Amelanotic; Neoplasms; Nevi and Melanomas; Pancreatic Neoplasms; Prostatic Intraepithelial Neoplasia; Prostatic Neoplasms; Sarcoma
RB1	Breast Neoplasms; Breast Neoplasms, Male; Carcinoma, Ductal, Breast; Inflammatory Breast Neoplasms; Neoplasms; Paget's Disease, Mammary; Retinoblastoma
RELA	Myopericytoma
RET	Adenocarcinoma, Bronchiolo-Alveolar; Adenocarcinoma, Follicular; Adenocarcinoma of Lung; Adenocarcinoma, Papillary; Carcinoid Tumor; Carcinoma, Embryonal; Carcinoma, Neuroendocrine; Carcinoma, Non-Small-Cell Lung; Carcinoma, Papillary, Follicular; Chordoma; Ganglioneuroma; Germinoma; Glioma; Gonadoblastoma; Lung Neoplasms; Mesonephroma; Multiple Endocrine Neoplasia; Neoplasms; Neurilemmoma; Neurocytoma; Neuroectodermal Tumor, Melanotic; Neuroectodermal Tumors, Primitive; Paraganglioma; Pinealoma; Retinoblastoma; Solid tumor; Teratocarcinoma; Teratoma; Thyroid Neoplasms; Trophoblastic Neoplasms
RHOA	Lymphoma, T-Cell; Stomach Neoplasms
RICTOR	Lung Neoplasms
RNF43	Colorectal Neoplasms; Neoplasms; Pancreatic Neoplasms; Stomach Neoplasms
ROS1	Adenocarcinoma, Bronchiolo-Alveolar; Adenocarcinoma of Lung; Carcinoma, Non-Small-Cell Lung; Glioma; Lung Neoplasms; Lymphoma, Large-Cell, Anaplastic; Neoplasms; Soft Tissue Neoplasms
SDHA	Myelodysplastic-Myeloproliferative Diseases; Myelodysplastic Syndromes; Myeloproliferative Disorders; Neoplasms; Paraganglioma; Pheochromocytoma; Precursor B-Cell Lymphoblastic Leukemia-Lymphoma; Precursor Cell Lymphoblastic Leukemia-Lymphoma
SDHB	Carcinoma, Renal Cell; Paraganglioma; Pheochromocytoma
SDHD	Paraganglioma; Pheochromocytoma
SETD2	Adenocarcinoma, Bronchiolo-Alveolar; Adenocarcinoma of Lung; Carcinoma, Non-Small-Cell Lung; Lung Neoplasms; Lymphoma, Large-Cell, Anaplastic; Lymphoma, T-Cell; Mesothelioma; Neoplasms; Soft Tissue Neoplasms
SF3B1	Leukemia, Lymphocytic, Chronic, B-Cell; Leukemia, Myeloid, Acute; Myelodysplastic-Myeloproliferative Diseases; Myelodysplastic Syndromes; Neoplasms; Uveal Neoplasms
SMAD4	Adenocarcinoma, Bronchiolo-Alveolar; Adenocarcinoma, Mucinous; Adenocarcinoma of Lung; Carcinoma, Non-Small-Cell Lung; Carcinoma, Pancreatic Ductal; Colonic Neoplasms; Colorectal Neoplasms; Head and Neck Neoplasms; Lung Neoplasms; Neoplasms; Pancreatic Neoplasms; Rectal Neoplasms
SMARCA4	Adenocarcinoma, Bronchiolo-Alveolar; Adenocarcinoma of Lung; Carcinoma, Non-Small-Cell Lung; Carcinoma, Small Cell; Lung Neoplasms; Neoplasms; Ovarian Neoplasms; Sarcoma; Thoracic Neoplasms; Uterine Neoplasms
SMARCB1	Carcinoma, Renal Cell; Neoplasms; Rhabdoid Tumor; Sarcoma
SMO	Carcinoma, Basal Cell
SRC	Carcinoma, Renal Cell; Colonic Neoplasms; Colorectal Neoplasms; Esophageal Neoplasms; Kidney Neoplasms; Rectal Neoplasms
SRSF2	Leukemia, Myeloid, Acute; Mastocytosis, Systemic; Myelodysplastic Syndromes; Myeloproliferative Disorders
SS18	Precursor B-Cell Lymphoblastic Leukemia-Lymphoma; Sarcoma, Synovial
SS18L1	Sarcoma, Synovial
STAG2	Glioblastoma; Leukemia, Myeloid, Acute; Myelodysplastic Syndromes; Precursor B-Cell Lymphoblastic Leukemia-Lymphoma; Precursor T-Cell Lymphoblastic Leukemia-Lymphoma; Sarcoma, Ewing
STAT6	Precursor B-Cell Lymphoblastic Leukemia-Lymphoma; Solitary Fibrous Tumors
STK11	Adenocarcinoma, Bronchiolo-Alveolar; Adenocarcinoma of Lung; Breast Neoplasms; Breast Neoplasms, Male; Carcinoma, Ductal, Breast; Carcinoma, Non-Small-Cell Lung; Carcinoma, Pancreatic Ductal; Colorectal Neoplasms; Inflammatory Breast Neoplasms; Lung Neoplasms; Paget's Disease, Mammary; Pancreatic Neoplasms
SUFU	Medulloblastoma
TAF15	Chondrosarcoma; Precursor B-Cell Lymphoblastic Leukemia-Lymphoma

Gene	Associated Diseases
TCF12	Breast Neoplasms; Breast Neoplasms, Male; Carcinoid Tumor; Carcinoma, Ductal, Breast; Carcinoma, Embryonal; Carcinoma, Neuroendocrine; Chondrosarcoma; Chordoma; Ganglioneuroma; Germinoma; Gonadoblastoma; Inflammatory Breast Neoplasms; Leukemia, Biphenotypic, Acute; Leukemia, Myeloid, Acute; Leukemia, Myelomonocytic, Acute; Mesonephroma; Neoplasms; Neurilemmoma; Neurocytoma; Neuroectodermal Tumor, Melanotic; Neuroectodermal Tumors, Primitive; Paget's Disease, Mammary; Paraganglioma; Pinealoma; Precursor Cell Lymphoblastic Leukemia-Lymphoma; Retinoblastoma; Solid tumor; Teratocarcinoma; Teratoma; Trophoblastic Neoplasms
TERT	Adenocarcinoma, Bronchiolo-Alveolar; Adenocarcinoma of Lung; Carcinoma, Non-Small-Cell Lung; Glioma; Leukemia, Myeloid, Acute; Lung Neoplasms; Lymphoma, Large-Cell, Anaplastic; Neoplasms; Soft Tissue Neoplasms; Thyroid Neoplasms
TFE3	Carcinoma, Renal Cell; Hemangiioendothelioma, Epithelioid; Kidney Neoplasms; Leukemia, Biphenotypic, Acute; Leukemia, Myeloid, Acute; Leukemia, Myelomonocytic, Acute; Neoplasms; Perivascular Epithelioid Cell Neoplasms; Precursor Cell Lymphoblastic Leukemia-Lymphoma; Sarcoma; Sarcoma, Alveolar Soft Part
TFEB	Carcinoma, Renal Cell
TFG	Adenocarcinoma, Bronchiolo-Alveolar; Adenocarcinoma, Follicular; Adenocarcinoma of Lung; Adenocarcinoma, Papillary; Carcinoid Tumor; Carcinoma, Embryonal; Carcinoma, Neuroendocrine; Carcinoma, Non-Small-Cell Lung; Carcinoma, Papillary, Follicular; Chondrosarcoma; Chordoma; Ganglioneuroma; Germinoma; Glioma; Gonadoblastoma; Lung Neoplasms; Lymphoma, Large-Cell, Anaplastic; Mesonephroma; Myeloproliferative Disorders; Neoplasms; Neurilemmoma; Neurocytoma; Neuroectodermal Tumor, Melanotic; Neuroectodermal Tumors, Primitive; Paraganglioma; Pinealoma; Retinoblastoma; Soft Tissue Neoplasms; Solid tumor; Teratocarcinoma; Teratoma; Thyroid Neoplasms; Trophoblastic Neoplasms
TGFB2	Colonic Neoplasms; Colorectal Neoplasms; Rectal Neoplasms
THADA	Carcinoid Tumor; Carcinoma, Embryonal; Carcinoma, Neuroendocrine; Chordoma; Ganglioneuroma; Germinoma; Gonadoblastoma; Mesonephroma; Neoplasms; Neurilemmoma; Neurocytoma; Neuroectodermal Tumor, Melanotic; Neuroectodermal Tumors, Primitive; Paraganglioma; Pinealoma; Precursor B-Cell Lymphoblastic Leukemia-Lymphoma; Retinoblastoma; Solid tumor; Teratocarcinoma; Teratoma; Trophoblastic Neoplasms
TMPRSS2	Adenocarcinoma, Bronchiolo-Alveolar; Adenocarcinoma of Lung; Carcinoma, Non-Small-Cell Lung; Carcinoma, Pancreatic Ductal; Cholangiocarcinoma; Glioma; Lung Neoplasms; Melanoma; Melanoma, Amelanotic; Neoplasms; Nevi and Melanomas; Pancreatic Neoplasms; Prostatic Intraepithelial Neoplasia; Prostatic Neoplasms; Sarcoma
TP53	Carcinoid Tumor; Carcinoma, Embryonal; Carcinoma, Neuroendocrine; Chordoma; Ganglioneuroma; Germinoma; Gonadoblastoma; Leukemia, Lymphocytic, Chronic, B-Cell; Leukemia, Myeloid, Acute; Li-Fraumeni Syndrome; Lymphoma, Mantle-Cell; Mesonephroma; Multiple Myeloma; Myelodysplastic Syndromes; Neoplasms; Neurilemmoma; Neurocytoma; Neuroectodermal Tumor, Melanotic; Neuroectodermal Tumors, Primitive; Paraganglioma; Pinealoma; Retinoblastoma; Solid tumor; Teratocarcinoma; Teratoma; Trophoblastic Neoplasms
TP63	Carcinoid Tumor; Carcinoma, Embryonal; Carcinoma, Neuroendocrine; Chordoma; Ganglioneuroma; Germinoma; Gonadoblastoma; Mesonephroma; Neoplasms; Neurilemmoma; Neurocytoma; Neuroectodermal Tumor, Melanotic; Neuroectodermal Tumors, Primitive; Paraganglioma; Pinealoma; Retinoblastoma; Solid tumor; Teratocarcinoma; Teratoma; Trophoblastic Neoplasms
TRAF7	Meningioma
TSC1	Angiomyolipoma; Astrocytoma; Carcinoid Tumor; Carcinoma, Embryonal; Carcinoma, Neuroendocrine; Carcinoma, Renal Cell; Carcinoma, Transitional Cell; Chordoma; Ganglioneuroma; Germinoma; Gonadoblastoma; Leukemia, Lymphoid; Leukemia, Myeloid; Mesonephroma; Myelodysplastic-Myeloproliferative Diseases; Myelodysplastic Syndromes; Myeloproliferative Disorders; Neoplasms; Neurilemmoma; Neurocytoma; Neuroectodermal Tumor, Melanotic; Neuroectodermal Tumors, Primitive; Neuroendocrine Tumors; Pancreatic Neoplasms; Paraganglioma; Perivascular Epithelioid Cell Neoplasms; Pinealoma; Precursor B-Cell Lymphoblastic Leukemia-Lymphoma; Precursor Cell Lymphoblastic Leukemia-Lymphoma; Retinoblastoma; Solid tumor; Teratocarcinoma; Teratoma; Trophoblastic Neoplasms; Urinary Bladder Neoplasms; Uterine Neoplasms
TSC2	Angiomyolipoma; Astrocytoma; Neuroendocrine Tumors; Pancreatic Neoplasms; Perivascular Epithelioid Cell Neoplasms; Uterine Neoplasms
U2AF1	Leukemia, Myeloid; Leukemia, Myeloid, Acute; Myelodysplastic Syndromes
USP6	Bone Cysts, Aneurysmal; Myeloproliferative Disorders; Neoplasms; Neoplasms, Connective and Soft Tissue
VGLL2	Adenocarcinoma, Bronchiolo-Alveolar; Adenocarcinoma of Lung; Carcinoma, Non-Small-Cell Lung; Lung Neoplasms; Neoplasms; Rhabdomyosarcoma; Sarcoma, Small Cell; Soft Tissue Neoplasms
VHL	Carcinoma, Renal Cell; Hemangioblastoma; Kidney Neoplasms; Neoplasms; Pancreatic Neoplasms; Pheochromocytoma
WWTR1	Adenocarcinoma, Bronchiolo-Alveolar; Adenocarcinoma, Follicular; Adenocarcinoma of Lung; Adenocarcinoma, Papillary; Carcinoid Tumor; Carcinoma; Carcinoma, Embryonal; Carcinoma, Neuroendocrine; Carcinoma, Non-Small-Cell Lung; Carcinoma, Papillary, Follicular; Chordoma; Ganglioneuroma; Germinoma; Glioma; Gonadoblastoma; Hemangiioendothelioma; Hemangiioendothelioma, Epithelioid; Lung Neoplasms; Mesonephroma; Neoplasms; Neurilemmoma; Neurocytoma; Neuroectodermal Tumor, Melanotic; Neuroectodermal Tumors, Primitive; Paraganglioma; Pinealoma; Retinoblastoma; Solid tumor; Teratocarcinoma; Teratoma; Thyroid Neoplasms; Trophoblastic Neoplasms
XRCC2	Myelodysplastic Syndromes; Neoplasms
YAP1	Adenocarcinoma, Bronchiolo-Alveolar; Adenocarcinoma of Lung; Breast Neoplasms; Breast Neoplasms, Male; Carcinoma; Carcinoma, Ductal, Breast; Carcinoma, Non-Small-Cell Lung; Ependymoma; Hemangiioendothelioma, Epithelioid; Inflammatory Breast Neoplasms; Leukemia, Biphenotypic, Acute; Leukemia, Myeloid, Acute; Leukemia, Myelomonocytic, Acute; Lung Neoplasms; Neoplasms; Paget's Disease, Mammary; Perivascular Epithelioid Cell Neoplasms; Precursor Cell Lymphoblastic Leukemia-Lymphoma; Supratentorial Neoplasms
YWHAE	Adenocarcinoma, Bronchiolo-Alveolar; Adenocarcinoma of Lung; Carcinoma, Non-Small-Cell Lung; Lung Neoplasms; Neoplasms; Sarcoma, Endometrial Stromal; Soft Tissue Neoplasms