

CANCER SYNDROMES COVERED BY KANCERRAY

Gene	Chromosome	Cancer Syndrome
<i>ALK</i>	2p23	Familial neuroblastoma
<i>APC</i>	5q21	Adenomatous polyposis coli; Turcot syndrome
<i>ATM</i>	11q22.3	Ataxia-telangiectasia
<i>BLM</i>	15q26.1	Bloom Syndrome
<i>BMPR1A</i>	10q22.3	Juvenile polyposis
<i>BRCA1</i>	17q21	Hereditary breast/ovarian cancer
<i>BRCA2</i>	13q12	Hereditary breast/ovarian cancer
<i>BRIP1</i>	17q22	Fanconi anaemia J, breast cancer susceptibility
<i>BUB1B</i>	15q15	Mosaic variegated aneuploidy
<i>CDC73</i>	1q21-q31	Hyperparathyroidism-jaw tumor syndrome
<i>CDH1</i>	16q22.1	Familial gastric carcinoma
<i>CDK4</i>	12q14	Familial malignant melanoma
<i>CDKN2A</i>	9p21	Familial malignant melanoma
<i>CHEK2</i>	22q12.1	familial breast cancer
<i>CYLD</i>	16q12-q13	Familial cylindromatosis
<i>DDB2</i>	11p12	Xeroderma pigmentosum (E)
<i>DICER1</i>	14q32.13	Familial Pleuropulmonary Blastoma
<i>EGFR</i>	7p12.3-p12.1	Familial lung cancer
<i>ERCC2</i>	19q13.2-q13.3	Xeroderma pigmentosum (D)
<i>ERCC3</i>	2q21	Xeroderma pigmentosum (B)
<i>ERCC4</i>	16p13.3-p13.13	Xeroderma pigmentosum (F)
<i>ERCC5</i>	13q33	Xeroderma pigmentosum (G)
<i>EXT1</i>	8q24.11-q24.13	Multiple Exostoses Type 1
<i>EXT2</i>	11p12-p11	Multiple Exostoses Type 2
<i>FANCA</i>	16q24.3	Fanconi anaemia A
<i>FANCC</i>	9q22.3	Fanconi anaemia C
<i>FANCD2</i>	3p26	Fanconi anaemia D2
<i>FANCE</i>	6p21-p22	Fanconi anaemia E
<i>FANCF</i>	11p15	Fanconi anaemia F
<i>FANCG</i>	9p13	Fanconi anaemia G
<i>FH</i>	1q42.1	hereditary leiomyomatosis and renal cell cancer
<i>FLCN</i>	17p11.2	Birt-Hogg-Dube syndrome
<i>GPC3</i>	Xq26.1	Simpson-Golabi-Behmel syndrome
<i>HNF1A</i>	12q24.2	Familial Hepatic Adenoma
<i>HRAS</i>	11p15.5	Costello syndrome
<i>KIT</i>	4q12	Familial gastrointestinal stromal tumour
<i>MEN1</i>	11q13	Multiple Endocrine Neoplasia Type 1
<i>MET</i>	7q31	Familial Papillary Renal Cancer
<i>MLH1</i>	3p21.3	Hereditary non-polyposis colorectal cancer, Turcot syndrome
<i>MPL</i>	p34	Familial essential thrombocythemia
<i>MSH2</i>	2p22-p21	Hereditary non-polyposis colorectal cancer
<i>MSH6</i>	2p16	Hereditary non-polyposis colorectal cancer
<i>MUTYH</i>	1p34.3-1p32.1	Adenomatous polyposis coli

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Gene	Chromosome	Cancer Syndrome
NBN	8q21	Nijmegen breakage syndrome
NF1	17q12	Neurofibromatosis type 1
NF2	22q12.2	Neurofibromatosis type 2
PALB2	16p12.1	Fanconi anaemia N, breast cancer susceptibility
PHOX2B	4p12	familial neuroblastoma
PMS1	2q31-q33	Hereditary non-polyposis colorectal cancer
PMS2	7p22	Hereditary non-polyposis colorectal cancer, Turcot syndrome
PRKAR1A	17q23-q24	Carney complex
PTCH1	9q22.3	Nevoid Basal Cell Carcinoma Syndrome
PTEN	10q23.3	Cowden Syndrome, Bannayan-Riley-Ruvalcaba syndrome
RB1	13q14	Familial retinoblastoma
RECQL4	8q24.3	Rothmund-Thompson Syndrome
RET	10q11.2	Multiple endocrine neoplasia 2A/2B
SBDS	7q11	Schwachman-Diamond syndrome
SDHAF2	11q12.2	Familial paraganglioma
SDHB	1p36.1-p35	Familial paraganglioma
SDHC	1q21	Familial paraganglioma
SDHD	11q23	Familial paraganglioma
SMAD4	18q21.1	Juvenile polyposis
SMARCB1	22q11	Rhabdoid predisposition syndrome
STK11	19p13.3	Peutz-Jeghers syndrome
SUFU	10q24.32	Medulloblastoma predisposition
TP53	17p13	Li-Fraumeni syndrome
TSC1	9q34	Tuberous sclerosis 1
TSC2	16p13.3	Tuberous sclerosis 2
VHL	3p25	von Hippel-Lindau syndrome
WAS	Xp11.23-p11.22	Wiskott-Aldrich syndrome
WRN	8p12-p11.2	Werner Syndrome
WT1	11p13	Denys-Drash syndrome, Frasier syndrome, Familial Wilms tumor
XPA	9q22.3	Xeroderma pigmentosum (A)
XPC	3p25	Xeroderma pigmentosum (C)