|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  | |
| **Gene** | **Type** | **Inheritance** | **Reference** | **Known predisposition, major associated tumor types** | **Source1** |  |
| *ABCB11* | Uncertain | Autosomal recessive | 10.1002/path.5780 | Liver, bile duct | Priestley |  |
| *ACD* | TSG? | Autosomal dominant/recessive | 10.1101/gad.248567.114 | Myelodysplastic syndromes, acute myeloid leukaemia, head/neck squamous cell cancer, anogenital adenocarcinoma | GE |  |
| *AIP* | TSG | Autosomal dominant | 10.3389/fendo.2023.1098367 | Pituitary adenoma | GE |  |
| *ALK* | ONCO | Autosomal dominant | 10.1093/ajcp/aqac172 | Neuroblastoma | Priestley |  |
| *APC* | TSG | Autosomal dominant | 10.1136/jmg-2022-108467 | Colorectal, hepatoblastoma, desmoid tumor | NKI |  |
| *ATM* | TSG | Autosomal dominant/recessive | 10.1158/1940-6207.CAPR-20-0448 | Leukaemia, lymphoma, breast | NKI |  |
| *ATR* | TSG | Autosomal dominant | 10.18632/oncotarget.28358 | Oropharyngeal | Priestley |  |
| *BAP1* | TSG | Autosomal dominant | 10.1097/CMR.0000000000000879 | Melanoma, mesothelioma, meningioma, lung | NKI |  |
| *BARD1* | ONCO and TSG? | Autosomal dominant | 10.1186/s12885-022-09567-4 | Breast | NKI |  |
| *BLM* | TSG | Autosomal recessive | 10.3892/mmr.2022.12829 | Lymphoma, leukaemia, myeloid haematological, squamous cell, gastric, colorectal, osteosarcoma | Priestley |  |
| *BMPR1A* | TSG | Autosomal dominant | 10.1111/cas.15330 | Colorectal, gastric, hamartoma | NKI |  |
| *BRAF* | ONCO? | Autosomal dominant | 10.1056/NEJMoa2213329 | Cardiofaciocutaneous syndrome | GE |  |
| *BRCA1* | TSG | Autosomal dominant/multifactorial | 10.1038/s41588-023-01298-x | Breast, ovarian, glioma | NKI |  |
| *BRCA2* | TSG | Autosomal dominant/recessive | 10.1097/MD.0000000000031705 | Medulloblastoma, Wilms tumor, breast, ovarian, prostate, pancreas, glioma | NKI |  |
| *BRIP1* | Uncertain | Autosomal dominant/recessive | 10.1038/s41598-023-31109-6 | Myeloid haematological, squamous cell, breast, ovarian | NKI |  |
| *BUB1B* | TSG | Autosomal recessive | 10.18632/aging.202944 | Wilms, rhabdomyosarcoma, myeloid haematological | Priestley |  |
| *CBL* | ONCO | Autosomal dominant | 10.1016/j.cancergen.2021.01.008 | Juvenile myelomonocytic leukaemia | Priestley |  |
| *CDC73* | TSG | Autosomal dominant | 10.1016/j.path.2022.09.009 | Parathyroid, ossifying fibroma | NKI |  |
| *CDH1* | TSG | Autosomal dominant | 10.1038/s41598-023-37012-4 | Breast, gastric | NKI |  |
| *CDK12* | TSG | Unknown | 10.1038/s12276-020-0442-9 | Breast, ovarian, prostate | NKI |  |
| *CDK4* | ONCO | Autosomal dominant | 10.1016/bs.apcsb.2023.02.002 | Melanoma | NKI |  |
| *CDKN1B* | TSG | Autosomal dominant/recessive | 10.1210/clinem/dgac162 | Thyroid, pituitary adenoma | ClinGen |  |
| *CDKN2A* | TSG | Autosomal dominant | 10.1097/MD.0000000000033468 | Melanoma, pancreas, astrocytoma | NKI |  |
| *CEBPA* | TSG | Autosomal dominant | 10.1007/s10689-023-00329-0 | Myeloid haematological | ClinGen |  |
| *CEP57* | Uncertain | Autosomal recessive | 10.1038/ng.822 | No cancers known | ClinGen |  |
| *CHEK1* | TSG | Unknown | 10.2217/bmm-2021-0919 | Lung | NKI |  |
| *CHEK2* | TSG | Autosomal dominant | 10.1002/ijc.34390 | Breast, glioma | NKI |  |
| *COL7A1* | TSG | Autosomal dominant/recessive | 10.3892/ol.2023.13663 | Squamous cell | Priestley |  |
| *CTC1* | TSG | Autosomal recessive | 10.1016/j.cancergen.2022.01. 006 | Leukaemia, squamous cell (head+neck, anorectal) | GE |  |
| *CTNNA1* | TSG | Unknown | 10.1136/jmg-2022-108740 | Gastric | ClinGen |  |
| *CYLD* | TSG | Autosomal dominant | 10.3390/ijms24098368 | Cylindroma, spiroadenocarcinoma, basal cell | Priestley |  |
| *DDB2* | TSG | Autosomal dominant | 10.1186/s12920-023-01622-8 | Basal cell, squamous cell, melanoma | ClinGen |  |
| *DDX41* | TSG | Autosomal dominant | 0.1182/blood.2022017715 | Myelodysplastic syndromes, leukaemia | ClinGen |  |
| *DICER1* | TSG | Autosomal dominant | 10.1038/s41467-023-37092-w | Pleuropulmonary blastoma, cystic nephroma, overian sex cord tumor | NKI |  |
| *DIS3L2* | TSG | Autosomal recessive | 10.1038/ng.1071 | Wilms tumor | Priestley |  |
| *DKC1* | ONCO? | X-linked, recessive | 10.1038/s41416-019-0695-z | Leukaemia, squamous cell (head+neck, anorectal) | ClinGen |  |
| *DOCK8* | TSG | Autosomal recessive | 10.1038/ncomms5603 | Squamous cell, lymphoma | Priestley |  |
| *DROSHA* | TSG | Autosomal dominant | 10.1038/s41467-018-05029-3 | Kidney, pineoblastoma | Priestley |  |
| *EGFR* | ONCO and TSG | Autosomal dominant | 10.1038/s41556-022-00962-4 | Non-small cell lung cancer | ClinGen |  |
| *ELANE* | ONCO? | Autosomal dominant | 10.1186/s12014-017-9166-9 | Leukaemia | ClinGen |  |
| *ENG* | ONCO and TSG? | Autosomal dominant | 10.3390/ijms22063186 | Melanoma, sarcoma, breast, prostate | ClinGen |  |
| *EPCAM* | TSG | Autosomal dominant | 0.1186/1897-4287-11-9 | Colorectal, endometrial, ovarian | NKI |  |
| *ERCC1* | TSG? | Autosomal recessive | 10.18632/oncotarget.12072 | No cancers known | Priestley |  |
| *ERCC2* | TSG | Autosomal recessive | 10.1158/1078-0432.CCR-18-1001 | Basal cell, squamous cell, melanoma | Priestley |  |
| *ERCC3* | TSG | Autosomal recessive | 10.1158/2159-8290.CD-16-0487 | Basal cell, squamous cell, melanoma | Priestley |  |
| *ERCC4* | TSG | Autosomal recessive | 10.1002/jcla.22956 | Basal cell, squamous cell, melanoma | Priestley |  |
| *ERCC5* | TSG | Autosomal recessive | 10.3389/fonc.2022.951193 | Basal cell, squamous cell, melanoma | Priestley |  |
| *EXT1* | TSG | Autosomal dominant | 10.1161/JAHA.114.001274 | Chondrosarcoma | Priestley |  |
| *EXT2* | TSG | Autosomal dominant | 10.1161/JAHA.114.001274 | Chondrosarcoma | ClinGen |  |
| *FAH* | Uncertain | Autosomal recessive | NA | Liver | Priestley |  |
| *FANCA* | TSG | Autosomal recessive | http://dx.doi.org/10.1136/jmg.2004.024851 | Myeloid haematological, squamous cell (head+neck, oesophagus, genital tract) | Priestley |  |
| *FANCB* | Uncertain | X-linked recessive | 10.1146/annurev-cancerbio-030617-050422 | Myeloid haematological, squamous cell (head+neck, oesophagus, genital tract) | Priestley |  |
| *FANCC* | TSG | Autosomal recessive | https://www.ncbi.nlm.nih.gov/books/NBK6419/ | Myeloid haematological, squamous cell (head+neck, oesophagus, genital tract) | Priestley |  |
| *FANCD2* | TSG | Autosomal recessive | 10.1016/B978-0-12-381320-6.00020-5 | Myeloid haematological, squamous cell (head+neck, oesophagus, genital tract) | Priestley |  |
| *FANCE* | TSG | Autosomal recessive | 14695169 | Myeloid haematological, squamous cell (head+neck, oesophagus, genital tract) | ClinGen |  |
| *FANCF* | TSG | Autosomal recessive | 10.1186/s12881-019-0855-2 | Myeloid haematological, squamous cell (head+neck, oesophagus, genital tract) | Priestley |  |
| *FANCG* | TSG | Autosomal recessive | 10.1002/humu.22680 | Myeloid haematological, squamous cell (head+neck, oesophagus, genital tract) | Priestley |  |
| *FANCI* | TSG | Autosomal recessive | 10.3390/genes14020277 | Myeloid haematological, squamous cell (head+neck, oesophagus, genital tract) | Priestley |  |
| *FANCL* | TSG | Autosomal recessive | 10.1042/BSR20191304 | Myeloid haematological, squamous cell (head+neck, oesophagus, genital tract) | NKI |  |
| *FANCM* | TSG | Autosomal dominant/recessive | 10.1038/s41431-022-01257-w | Breast | Priestley |  |
| *FH* | TSG | Autosomal dominant/recessive | 10.1038/s41416-023-02412-w | Renal, uterus | NKI |  |
| *FLCN* | TSG | Autosomal dominant | 10.1016/j.gene.2017.09.044 | Renal, oncocytoma | NKI |  |
| *GATA2* | ONCO and TSG | Autosomal dominant | 10.1182/blood.2021011758 | Myeloid haematological, osteosarcoma, leukaemia, colon | ClinGen |  |
| *GBA1* | TSG? | Autosomal recessive | 10.1038/s41419-022-04968-6 | Myeloma, lymphoma, hepatocellular | Priestley |  |
| *GJB2* | Uncertain | Autosomal dominant | NA | Squamous cell | Priestley |  |
| *GREM1* | ONCO? | Autosomal dominant | 10.1007/s12079-023-00777-4 | Colorectal, ovarian | ClinGen |  |
| *HERC2* | TSG | Autosomal recessive | DOI: 10.1126/sciadv.ade2675 | Leukaemia, breast, glioma | Choi et al.[13] |  |
| *HFE* | Uncertain | Autosomal recessive | NA | Liver, bile duct | Priestley |  |
| *HMBS* | Uncertain | Autosomal dominant | NA | Liver | Priestley |  |
| *HRAS* | ONCO | Autosomal dominant | 10.3892/ijo.2018.4435 | Rhabdomyosarcoma, neuroblastoma, bladder | GE |  |
| *ITK* | Uncertain | Autosomal recessive | NA | Lymphoma | Priestley |  |
| *KIT* | ONCO | Autosomal dominant | 10.17305/bjbms.2021.7399 | Gastrointestinal stromal | NKI |  |
| *KRAS* | ONCO | Autosomal dominant | 10.3390/ijms24119313 | Juvenile myelomonocytic leukaemia, neuroblastoma | Priestley |  |
| *LZTR1* | TSG | Autosomal dominant | 10.1016/j.ejmg.2019.103680 | Schwannoma | GE |  |
| *MAP2K1* | ONCO | Autosomal dominant | 10.1158/1535-7163.MCT-22-0302 | Cardiofaciocutaneous syndrome | GE |  |
| *MAP2K2* | ONCO | Autosomal dominant | 10.1038/ng.1026 | Cardiofaciocutaneous syndrome | Priestley |  |
| *MAX* | TSG | Autosomal dominant | 10.1016/j.mce.2013.07.032 | Paraganglioma, pheochromocytoma | ACMG\_v3.2 |  |
| *MEN1* | TSG | Autosomal dominant | 10.3389/fendo.2019.00339 | Parathyroid, pituitary adenoma, neuroendocrine, carcinoid, adrenocortical | NKI |  |
| *MET* | ONCO | Autosomal dominant | 10.4161/cam.4.1.10973 | Kidney | NKI |  |
| *MITF* | ONCO and TSG? | Autosomal dominant | 10.1038/s41598-020-74237-z | Melanoma, kidney | NKI |  |
| *MLH1* | TSG | Autosomal dominant/recessive | 10.1002/humu.22262 | Brain, haematological, embryonal, colorectal, endometrial, ovarian | NKI |  |
| *MLH3* | TSG | Autosomal dominant | 10.1038/s41436-018-0405-x | Lynch syndrome, breast, endometrial | ClinGen |  |
| *MPL* | ONCO | Autosomal dominant/recessive | 10.1016/bs.ircmb.2021.09.003 | Leukaemia, myelodysplastic syndromes | Priestley |  |
| *MRE11* | TSG? | Autosomal recessive | 10.1158/0008-5472.CAN-17-1355 | Ovarian, breast, glioma | ClinGen |  |
| *MSH2* | TSG | Autosomal dominant/recessive | 10.1200/JCO.2001.19.20.4074 | Brain, haematological, embryonal, colorectal, endometrial, ovarian, sebaceous adenoma, carcinoma, epithelioma | NKI |  |
| *MSH3* | ONCO and TSG? | Autosomal recessive | 10.1016/j.ajhg.2016.06.015 | Colorectal | ClinGen |  |
| *MSH6* | TSG | Autosomal dominant/recessive | 10.1200/JCO.2001.19.20.4074 | Brain, haematological, embryonal, colorectal, endometrial, ovarian | NKI |  |
| *MTAP* | TSG | Autosomal dominant | 10.1126/science.aad5214 | Malignant fibrous histiocytoma | ClinGen |  |
| *MUTYH* | TSG | Autosomal recessive | 10.1093/nar/gkac1246 | Colorectal, glioma | NKI |  |
| *NBN* | TSG? | Autosomal recessive | 10.3892/br.2016.579 | Lymphoma, medulloblastoma, glioma, rhabdomyosarcoma | Priestley |  |
| *NF1* | TSG | Autosomal dominant | 10.1634/theoncologist.5-6-477 | Glioma, malignant peripheral nerve sheath tumor | NKI |  |
| *NF2* | TSG | Autosomal dominant | 10.18632/oncotarget.1557 | Vestibular schwannoma, meningioma, ependymoma | NKI |  |
| *NOP10* | ONCO? | Autosomal dominant/recessive | 10.1038/s41388-020-01570-y | Non-small cell lung cancer | GE |  |
| *NRAS* | ONCO | Autosomal dominant | 10.2147/OTT.S117121 | Leukaemia, juvenile myelomonocytic leukaemia | GE |  |
| *NTHL1* | TSG | Autosomal recessive | 10.1038/s41523-021-00255-3 | Colorectal | NKI |  |
| *PALB2* | TSG | Autosomal dominant/recessive | 10.1038/s41598-023-34693-9 | Myeloid haematological malignancy, medulloblastoma, neuroblastoma, Wilms tumor, breast, pancreas | NKI |  |
| *PARN* | Uncertain | Autosomal recessive | NA | Leukaemia, squamous cell (head+neck, anorectal), melanoma | GE |  |
| *PDGFRA* | ONCO | Autosomal dominant | 10.1038/onc.2013.218 | Gastro-intestinal stromal tumor | ClinGen |  |
| *PHOX2B* | TSG? | Autosomal dominant | 10.3892/ol.2015.3088 | Neuroblastoma | ClinGen |  |
| *PMS2* | TSG | Autosomal dominant/recessive | 10.1200/JCO.2018.78.4777 | Brain, haematological, neuroectodermal, colorectal, endometrial, ovarian | NKI |  |
| *POLD1* | TSG? | Autosomal dominant | 10.1186/s13046-022-02422-1 | Colorectal, endometrial | NKI |  |
| *POLE* | TSG? | Autosomal dominant/recessive | 10.1186/s13046-022-02422-1 | Colorectal | NKI |  |
| *POLH* | TSG? | Autosomal recessive | 10.1016/j.ejca.2009.04.034 | Squamous cell | ClinGen |  |
| *POT1* | ONCO? | Autosomal dominant/recessive | 10.3390/genes13040591 | Melanoma, glioma | Priestley |  |
| *PPP1CB* | Uncertain | Autosomal dominant | http://dx.doi.org/10.1136/bcr-2016-217189 | Leukaemia, paediatric glioma | GE |  |
| *PPP2R2A* | TSG | Unknown | 10.1016/j.cancergen.2011.05.002 | Prostate | NKI |  |
| *PRDM9* | Uncertain | Unknown | 10.1101/gr.231696.117 | Lymphoma, leukaemia | Priestley |  |
| *PRF1* | TSG? | Autosomal recessive | 10.1016/j.tranon.2021.101042 | Lymphoma | Priestley |  |
| *PRKAR1A* | TSG | Autosomal dominant | 10.1038/srep39630 | Myxoma, thyroid, sex cord-stromal tumor | ClinGen |  |
| *PRSS1* | ONCO? | Autosomal dominant | 10.3389/fphys.2014.00070 | Pancreas | ClinGen |  |
| *PTCH1* | TSG | Autosomal dominant | 10.1038/s41598-019-52617-4 | Basal cell, medulloblastoma | NKI |  |
| *PTCH2* | TSG | Autosomal dominant | 10.1016/j.bbrc.2022.08.043 | Basal cell, medulloblastoma | ClinGen |  |
| *PTEN* | TSG | Autosomal dominant | 10.3390/genes11070719 | Breast, thyroid, endometrial | NKI |  |
| *PTPN11* | ONCO and TSG | Autosomal dominant | 10.1007/s10555-008-9126-y | Juvenile myelomonocytic leukaemia, neuroblastoma | GE |  |
| *PTPRJ* | TSG | Unknown | 10.18632/oncotarget.25101 | Colorectal, thyroid | ClinGen |  |
| *RABL3* | ONCO | Autosomal dominant | 10.1038/s41588-019-0475-y | Pancreatic | GE |  |
| *RAD50* | TSG | Autosomal recessive | 10.1186/s12943-019-1100-5 | Breast, colorectal, ovarian, Nijmegen breakage syndrome | NKI |  |
| *RAD51B* | TSG | Unknown | 10.1186/1471-2407-13-484 | Breast, ovarian | NKI |  |
| *RAD51C* | TSG | Autosomal dominant/recessive | 10.1186/s13048-020-00654-3 | Ovarian | NKI |  |
| *RAD51D* | TSG | Autosomal dominant | 10.1186/s13048-020-00654-3 | Ovarian | NKI |  |
| *RAD54L* | TSG | Unknown | 10.1038/sj.onc.1202692 | Pancreatic | NKI |  |
| *RAF1* | ONCO | Autosomal dominant | 10.1038/s41388-023-02683-w | Juvenile myelomonocytic leukaemia, neuroblastoma | GE |  |
| *RB1* | TSG | Autosomal dominant | 10.1016/B978-0-12-380916-2.00005-X | Retinoblastoma, pinealoma, sarcoma, melanoma | NKI |  |
| *RECQL* | Uncertain | Autosomal recessive | 10.1371/journal.pgen.1005228 | Breast | Priestley |  |
| *RECQL4* | TSG | Autosomal recessive | 10.1002/path.4681 | Osteosarcoma, basal cell, squamous cell | Priestley |  |
| *RET* | ONCO | Autosomal dominant | 10.31662/jmaj.2020-0021 | Thyroid, pheochromocytoma | NKI |  |
| *RHBDF2* | Uncertain | Autosomal dominant | 10.1016/j.ajhg.2011.12.008 | Oesophageal | Priestley |  |
| *RINT1* | TSG | Autosomal recessive | 10.1158/2159-8290.CD-14-0212 | Breast, Lynch syndrome | ClinGen |  |
| *RIT1* | ONCO | Autosomal dominant | 10.1038/s41467-021-24841-y | Lung adenocarcinoma, melanoma | GE |  |
| *RNF43* | TSG | Autosomal dominant | 10.1038/ng.3127 | Colorectal, endometrial | ClinGen |  |
| *RTEL1* | TSG | Autosomal dominant/recessive | 10.1007/s00439-013-1265-8 | Leukaemia, squamous cell (head+neck, anorectal), melanoma | GE |  |
| *RUNX1* | ONCO and TSG | Autosomal dominant | 10.1186/s13046-019-1330-9 | Myeloid haematological malignancy | ClinGen |  |
| *SBDS* | Uncertain | Autosomal recessive | 10.1038/s41419-020-2393-4 | Myeloid haematological malignancy | Priestley |  |
| *SDHA* | TSG | Autosomal dominant/recessive | 10.1101/mcs.a002584 | Paraganglioma, pheochromocytoma, gastro-intestinal stromal tumor | NKI |  |
| *SDHAF2* | TSG | Autosomal dominant | 10.1001/jamaoncol.2017.0223 | Paraganglioma, pheochromocytoma | NKI |  |
| *SDHB* | TSG | Autosomal dominant | 10.1002/humu.21136 | Paraganglioma, pheochromocytoma, kidney | NKI |  |
| *SDHC* | TSG | Autosomal dominant | 10.1136/jmedgenet-2017-105127 | Paraganglioma, pheochromocytoma, gastro-intestinal stromal tumor | NKI |  |
| *SDHD* | TSG | Autosomal dominant | 10.1002/humu.21136 | Paraganglioma, pheochromocytoma, gastro-intestinal stromal tumor | NKI |  |
| *SH2B3* | TSG | Autosomal dominant | 10.1182/blood-2013-05-500850 | Leukaemia | Priestley |  |
| *SHOC2* | Uncertain | Autosomal dominant | 10.1128/MCB.00627-20 | No cancers known | GE |  |
| *SLC25A13* | TSG? | Autosomal recessive | 10.1038/srep38415 | Liver | Priestley |  |
| *SLX4* | TSG | Autosomal recessive | 10.1080/10409238.2018.1488803 | Squamous cell | GE |  |
| *SMAD4* | TSG | Autosomal dominant | 10.1016/s0006-291x(03)01066-0 | Colorectal | NKI |  |
| *SMARCA4* | TSG? | Autosomal dominant | 10.1158/1535-7163.MCT-21-0433 | Rhabdoid tumor | NKI |  |
| *SMARCB1* | TSG | Autosomal dominant | 10.1002/gcc.23195 | Rhabdoid tumor, central primitive neuroectodermal tumor | NKI |  |
| *SMARCE1* | TSG | Autosomal dominant | 10.1007/s10048-015-0472-y | Meningioma | NKI |  |
| *SOS1* | ONCO | Autosomal dominant | 10.1016/j.bbrc.2022.11.015 | Rhabdomyosarcoma | Priestley |  |
| *SOS2* | Uncertain | Autosomal dominant | 10.1126/scisignal.aar8371 | Rhabdomyosarcoma | GE |  |
| *SPRED1* | TSG | Autosomal dominant | 10.1084/jem.20201097 | Melanoma | GE |  |
| *STK11* | TSG | Autosomal dominant | 10.1053/j.gastro.2004.03.014 | Colorectal, gastric, breast, sex-cord stromal tumor | NKI |  |
| *SUFU* | TSG | Autosomal dominant | 10.1093/neuonc/nox228 | Medulloblastoma, meningioma | NKI |  |
| *TERC* | ONCO and TSG | Autosomal dominant | 10.1136/gut.2011.239772 | Colorectal | GE |  |
| *TERF2* | TSG? | Unknown | 10.1093/neuonc/noy119 | Lung, melanoma, leukaemia | Jacobs et al.[27] |  |
| *TERT* | ONCO | Autosomal dominant/recessive | 10.1371/journal.pone.0281487 | Leukaemia, squamous cell (head+neck, anorectal), melanoma | ClinGen |  |
| *TGFBR1* | ONCO and TSG? | Autosomal dominant | 10.1038/s41523-022-00446-6  10.1007/s11033-009-9906-7 | Squamous cell | ClinGen |  |
| *TINF2* | TSG | Autosomal dominant | 10.7554/eLife.61235 | Leukaemia, squamous cell (head+neck, anorectal), melanoma | GE |  |
| *TMEM127* | TSG | Autosomal dominant | 10.1210/clinem/dgaa741 | Pheochromocytoma | Priestley |  |
| *TP53* | TSG | Autosomal dominant | 10.3390/cancers14153664 | Breast, sarcoma, adrenocortical, astrocytoma | NKI |  |
| *TRIM37* | ONCO | Autosomal recessive | 10.3390/ijms23031176 | Wilms tumor | Priestley |  |
| *TSC1* | TSG | Autosomal dominant | 10.1016/j.ccr.2005.08.008 | Kidney, angiomyolipoma, astrocytoma, rhabdomyosarcoma | NKI |  |
| *TSC2* | TSG | Autosomal dominant | 10.1016/j.ccr.2005.08.008 | Kidney, angiomyolipoma, astrocytoma, rhabdomyosarcoma | NKI |  |
| *UROD* | ONCO | Autosomal dominant/recessive | 10.1126/scitranslmed.3001922 | Liver | Priestley |  |
| *VHL* | TSG | Autosomal dominant | 10.1038/gim.2015.44 | Kidney, pheochromocytoma, pancreas, hemangioblastoma | NKI |  |
| *WAS* | ONCO and TSG? | X-linked recessive | 10.1080/2162402X.2018.1468954 | Lymphoma | ClinGen |  |
| *WRAP53* | TSG | Autosomal recessive | 10.1038/cddis.2010.90 | Myelodysplastic syndromes, leukaemia, squamous cell (head+neck), anogenital | GE |  |
| *WRN* | TSG | Autosomal recessive | 10.3389/fonc.2021.648649 | Sarcoma, melanoma, thyroid | Priestley |  |
| *WT1* | ONCO and TSG | Autosomal dominant | 10.1186/s13048-023-01124-2 | Wilms tumor, gonadoblastoma | NKI |  |
| *XPA* | TSG | Autosomal recessive | 10.1016/bs.enz.2019.06.004 | Basal cell, squamous cell, melanoma | Priestley |  |
| *XPC* | TSG | Autosomal recessive | 10.1007/s12282-020-01121-z | Basal cell, squamous cell, melanoma | Priestley |  |
| *XRCC2* | ONCO? | Autosomal dominant | 10.1186/s10020-021-00316-0 | Melanoma, breast | ClinGen |  |

1See *Methods* section for composition of the different gene panels. ACMG: American College of Medical Genetics and Genomics; GE: Genomics England; NKI: Nederlands Kanker Instituut; ONCO: proto-onco gene; TSG: tumor suppressor gene