

Approved symbol	Approved name	HGNC ID	Location	Disease panel
AIP	aryl hydrocarbon receptor interacting protein	HGNC:358	11q13.3	cancer: MEN1
APC	APC, WNT signaling pathway regulator	HGNC:583	5q22.2	cancer: APC, FAP
ATM	ATM serine/threonine kinase	HGNC:795	11q22-q23	cancer
AXIN2	axin 2	HGNC:904	17q24.1	cancer: CRC
BARD1	BRCA1 associated RING domain 1	HGNC:952	2q35	cancer
BLM	Bloom syndrome RecQ like helicase	HGNC:1058	15q26.1	cancer
BMPR1A	bone morphogenetic protein receptor type 1A	HGNC:1076	10q22.3	cancer: CRC, polyposis
BRAF	B-Raf proto-oncogene, serine/threonine kinase	HGNC:1097	7q34	cancer: other CRC-related
BRCA1	BRCA1, DNA repair associated	HGNC:1100	17q21.31	cancer: ovary
BRCA2	BRCA2, DNA repair associated	HGNC:1101	13q13.1	cancer: ovary
BRIP1	BRCA1 interacting protein C-terminal helicase 1	HGNC:20473	17q23.2	cancer: ovary
CASR	calcium sensing receptor	HGNC:1514	3q21.1	cancer: MEN1
CDC73	cell division cycle 73	HGNC:16783	1q25	cancer: MEN1
CDH1	cadherin 1	HGNC:1748	16q22.1	cancer: other CRC-related
CDK4	cyclin dependent kinase 4	HGNC:1773	12q14.1	cancer
CDKN1A	cyclin dependent kinase inhibitor 1A	HGNC:1784	6p21.1	cancer: MEN1
CDKN1B	cyclin dependent kinase inhibitor 1B	HGNC:1785	12p13.1-p12	cancer: MEN1
CDKN2A	cyclin dependent kinase inhibitor 2A	HGNC:1787	9p21	cancer: other CRC-related
CDKN2B	cyclin dependent kinase inhibitor 2B	HGNC:1788	9p21	cancer: MEN1
CDKN2C	cyclin dependent kinase inhibitor 2C	HGNC:1789	1p32.3	cancer: MEN1
CDKN2D	cyclin dependent kinase inhibitor 2D	HGNC:1790	19p13	cancer
CHEK1	checkpoint kinase 1	HGNC:1925	11q24.2	cancer
CHEK2	checkpoint kinase 2	HGNC:16627	22q12.1	cancer: other CRC-related
CTNNB1	catenin beta 1	HGNC:2514	3p21	cancer: other CRC-related
DHFR	dihydrofolate reductase	HGNC:2861	5q14.1	cancer
ENG	endoglin	HGNC:3349	9q34.11	cancer: CRC, polyposis
EPCAM	epithelial cell adhesion molecule	HGNC:11529	2p21	cancer: CRC, other CRC-related, ovary
EXO1	exonuclease 1	HGNC:3511	1q43	cancer: CRC
FAM175A	family with sequence similarity 175 member A	HGNC:25829	4q21.23	cancer
FANCC	Fanconi anemia complementation group C	HGNC:3584	9q22.3	cancer
FH	fumarate hydratase	HGNC:3700	1q42.1	cancer: kidney

Approved symbol	Approved name	HGNC ID	Location	Disease panel
FLCN	folliculin	HGNC:27310	17p11.2	cancer: other CRC-related, kidney
GALNT12	polypeptide N-acetylgalactosaminyltransferase 12	HGNC:19877	9q22.33	cancer: other CRC-related
GNAS	GNAS complex locus	HGNC:4392	20q13.2-q13.3	cancer: MEN1
HOXB13	homeobox B13	HGNC:5112	17q21.32	cancer
KRAS	KRAS proto-oncogene, GTPase	HGNC:6407	12p12.1	cancer: other CRC-related
MCC	mutated in colorectal cancers	HGNC:6935	5q21-q22	cancer: other CRC-related
MEN1	menin 1	HGNC:7010	11q13	cancer: MEN1
MET	MET proto-oncogene, receptor tyrosine kinase	HGNC:7029	7q31	cancer: kidney
MGMT	O-6-methylguanine-DNA methyltransferase	HGNC:7059	10q26	cancer: other CRC-related
MLH1	mutL homolog 1	HGNC:7127	3p22.3	cancer: CRC
MLH3	mutL homolog 3	HGNC:7128	14q24.3	cancer: CRC
MRE11A	MRE11 homolog A, double strand break repair nuclease	HGNC:7230	11q21	cancer
MSH2	mutS homolog 2	HGNC:7325	2p21	cancer: CRC
MSH3	mutS homolog 3	HGNC:7326	5q14.1	cancer: CRC
MSH6	mutS homolog 6	HGNC:7329	2p16	cancer: CRC
MUTYH	mutY DNA glycosylase	HGNC:7527	1p34.1	cancer: CRC, FAP
NBN	nibrin	HGNC:7652	8q21-q24	cancer
NF1	neurofibromin 1	HGNC:7765	17q11.2	cancer: CRC
NF2	neurofibromin 2	HGNC:7773	22q12.2	cancer: CRC
NTRK1	neurotrophic receptor tyrosine kinase 1	HGNC:8031	1q21-q22	cancer: MEN1
OGG1	8-oxoguanine DNA glycosylase	HGNC:8125	3p26	cancer: other CRC-related
PALB2	partner and localizer of BRCA2	HGNC:26144	16p12.2	cancer
PIK3CA	phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit alpha	HGNC:8975	3q26.3	cancer: other CRC-related
PMS1	PMS1 homolog 1, mismatch repair system component	HGNC:9121	2q31-q33	cancer: other CRC-related
PMS2	PMS1 homolog 2, mismatch repair system component	HGNC:9122	7p22.1	cancer: CRC
POLD1	DNA polymerase delta 1, catalytic subunit	HGNC:9175	19q13.3	cancer: CRC
POLE	DNA polymerase epsilon, catalytic subunit	HGNC:9177	12q24.3	cancer: CRC
PRKAR1A	protein kinase cAMP-dependent type I regulatory subunit alpha	HGNC:9388	17q24.2	cancer: MEN1
PTCH1	patched 1	HGNC:9585	9q22.1-q31	cancer: CRC
PTEN	phosphatase and tensin homolog	HGNC:9588	10q23	cancer: CRC
PTPN11	protein tyrosine phosphatase, non-receptor type 11	HGNC:9644	12q24.1	cancer

Approved symbol	Approved name	HGNC ID	Location	Disease panel
RAD50	RAD50 double strand break repair protein	HGNC:9816	5q31.1	cancer
RAD51	RAD51 recombinase	HGNC:9817	15q15.1	cancer
RAD51C	RAD51 paralog C	HGNC:9820	17q25.1	cancer
RAD51D	RAD51 paralog D	HGNC:9823	17q11	cancer
RET	ret proto-oncogene	HGNC:9967	10q11.2	cancer: MEN1
SDHB	succinate dehydrogenase complex iron sulfur subunit B	HGNC:10681	1p36.1-p35	cancer: MEN1
SDHC	succinate dehydrogenase complex subunit C	HGNC:10682	1q23.3	cancer: MEN1
SDHD	succinate dehydrogenase complex subunit D	HGNC:10683	11q23	cancer: MEN1
SFXN4	sideroflexin 4	HGNC:16088	10q26.11	cancer
SMAD4	SMAD family member 4	HGNC:6770	18q21.1	cancer: CRC
SPRED1	sprouty related EVH1 domain containing 1	HGNC:20249	15q14	cancer: NF
STK11	serine/threonine kinase 11	HGNC:11389	19p13.3	cancer: CRC
TGFB1	transforming growth factor beta 1	HGNC:11766	19q13.1	cancer: other CRC-related
TP53	tumor protein p53	HGNC:11998	17p13.1	cancer: CRC
TP73	tumor protein p73	HGNC:12003	1p36.3	cancer: other CRC-related
TWSG1	twisted gastrulation BMP signaling modulator 1	HGNC:12429	18p11.3	cancer
TYMS	thymidylate synthetase	HGNC:12441	18p11.31-p11.21	cancer: other CRC-related
UACA	uveal autoantigen with coiled-coil domains and ankyrin repeats	HGNC:15947	15q22-q24	cancer
UIMC1	ubiquitin interaction motif containing 1	HGNC:30298	5q35.2	cancer
VHL	von Hippel-Lindau tumor suppressor	HGNC:12687	3p25.3	cancer: MEN1, kidney
XRCC2	X-ray repair cross complementing 2	HGNC:12829	7q36	cancer
XRCC3	X-ray repair cross complementing 3	HGNC:12830	14q32.3	cancer