

Summary of the findings

Approved symbol	Approved name	Chromosome location	Publication Year	First Author	Type of study	Country	DOI
ACE	angiotensin I converting enzyme	17q23.3	2012	Correa-Noronha SAA	Case-control	Brazil	10.3109/09513590.2012.683060
ACE	angiotensin I converting enzyme	17q23.3	2016	Pringle K	Case-control	Australia	10.1530/EC-15-0112
ADAM12	ADAM metallopeptidase domain 12	10q26.2	2014	De Vivo I	Case-control	United States	10.1007/s00439-013-1369-1
ADIPOQ	adiponectin, C1Q and collagen domain containing	3q27.3	2015	Aminomoghaddam S	Case-control	Iran	10.1016/j.prp.2014.11.012
ADIPOQ	adiponectin, C1Q and collagen domain containing	3q27.3	2016	Bieńkiewicz J	Case-control	Poland	10.1007/s12253-015-9985-9
ADIPOR1	adiponectin receptor 1	1q32.1	2012	Chen X	Case-control	China	10.1002/cncr.26552
ADIPOR2	adiponectin receptor 2	12p13.33	2012	Chen X	Case-control	China	10.1002/cncr.26552
AGT	angiotensinogen	1q42.2	2016	Pringle K	Case-control	Australia	10.1530/EC-15-0112
AGTR1	angiotensin II receptor type 1	3q24	2016	Pringle K	Case-control	Australia	10.1530/EC-15-0112
AHR	aryl hydrocarbon receptor	7p21.1	2013	Li D	Cohort	Japan	10.1038/onc.2012.509
AKT1	AKT serine/threonine kinase 1	14q32.33	2012	Wang L	Case-control	United States	10.1007/s00432-011-1103-0
AKT1	AKT serine/threonine kinase 1	14q32.33	2011	Lacey Jr	Case-control	Poland	10.1016/j.ygyno.2010.10.016
AKT1	AKT serine/threonine kinase 1	14q32.33	2020	Casas-Arozamena C	Cohort	Spain	10.3390/jcm9020585
AKT1	AKT serine/threonine kinase 1	14q32.33	2019	Hájková N	Cross-sectional	Czech Republic	10.3892/ol.2018.9855
AKT1	AKT serine/threonine kinase 1	14q32.33	2015	Fallah S	Case-control	Iran	10.1007/s10528-015-9690-0
AKT1	AKT serine/threonine kinase 1	14q32.33	2015	Wong S	Cross-sectional	Australia	10.1038/bjc.2015.80
AKT2	AKT serine/threonine kinase 2	19q13.2	2012	Wang L	Case-control	United States	10.1007/s00432-011-1103-0
AKT3	AKT serine/threonine kinase 3	1q43-q44	2012	Wang L	Case-control	United States	10.1007/s00432-011-1103-0
APC	APC regulator of WNT signaling pathway	5q22.2	2018	Reiter J	Cross-sectional	United States	10.1126/science.aat7171
APOE	apolipoprotein E	19q13.32	2015	Ivanova, Tatiana I	Case-control	United States	10.1155/2015/593658
ARID1A	AT-rich interaction domain 1A	1p36.11	2013	Kandoth C	Cross-sectional	United States	10.1038/nature12113
ARID1A	AT-rich interaction domain 1A	1p36.11	2017	Ayhan A	Cross-sectional	United States	10.1038/modpathol.2016.160
ARID1A	AT-rich interaction domain 1A	1p36.11	2018	Yang L	Cross-sectional	England	10.1097/IGC.0000000000001227
ARID1A	AT-rich interaction domain 1A	1p36.11	2018	Reiter J	Cross-sectional	United States	10.1126/science.aat7171
ARID1A	AT-rich interaction domain 1A	1p36.11	2019	Hájková N	Cross-sectional	Czech Republic	10.3892/ol.2018.9855
ARID1A	AT-rich interaction domain 1A	1p36.11	2016	Anglesio M	Cross-sectional	Canada	10.1093/jnci/djv428
ARID1B	AT-rich interaction domain 1B	6q25.3	2018	Kolin D	Cross-sectional	United States	10.1038/s41379-018-0049-z
ARMCX4	armadillo repeat containing X-linked 4	Xq22.1	2017	Chang Y	Cross-sectional	Taiwan	10.3892/ijo.2017.3919
ASRGL1	asparaginase and isoaspartyl peptidase 1	11q12.3	2020	Huang C	Cross-sectional	Taiwan	10.3389/fonc.2019.01508
ASXL1	ASXL transcriptional regulator 1	20q11.21	2018	Kolin D	Cross-sectional	United States	10.1038/s41379-018-0049-z
ATM	ATM serine/threonine kinase	11q22.3	2019	Gotoh, Osamu	Cohort	Japan	10.1038/s41467-019-12985-x
ATM	ATM serine/threonine kinase	11q22.3	2019	De Jonge M	Cross-sectional	Netherlands	10.1158/1078-0432.CCR-18-1443
ATP6AP2	ATPase H+ transporting accessory protein 2	Xp11.4	2016	Pringle K	Case-control	Australia	10.1530/EC-15-0112
AURKA	aurora kinase A	20q13.2	2015	Zheng L	Case-control	China	10.1016/j.ejogrb.2014.11.001
B2M	beta-2-microglobulin	15q21.1	2012	Kowalewska M	Case-control	United States	10.1016/j.clinbiochem.2012.01.001
BARD1	BRCA1 associated RING domain 1	2q35	2019	De Jonge M	Cross-sectional	Netherlands	10.1158/1078-0432.CCR-18-1443
BARD1	BRCA1 associated RING domain 1	2q35	2019	Hájková N	Cross-sectional	Czech Republic	10.3892/ol.2018.9855
BAX	BCL2 associated X, apoptosis regulator	19q13.33	2016	Nagasawa T	Cross-sectional	Japan	10.1097/IGC.0000000000000824
BCL2	BCL2 apoptosis regulator	18q21.33	2013	Dorjgochoo T	Case-control	China	10.1371/journal.pone.0060915

BCL2L11	BCL2 like 11	2q13	2017	Fialkova V	Case-control	Slovakia	10.4149/gpb_2017032
BIK	BCL2 interacting killer	22q13.2	2017	Fialkova V	Case-control	Slovakia	10.4149/gpb_2017032
BIRC2	baculoviral IAP repeat containing 2	11q22.2	2017	Chang Y	Cross-sectional	Taiwan	10.3892/ijo.2017.3919
BIRC5	baculoviral IAP repeat containing 5	17q25.3	2012	Zahedi P	Case-control	Iran	10.1097/IGC.0b013e318229902c
BIRC5	baculoviral IAP repeat containing 5	17q25.3	2015	Aminimoghaddam S	Case-control	Iran	10.1016/j.prp.2014.11.012
BLM	BLM RecQ like helicase	15q26.1	2019	Gotoh, Osamu	Cohort	Japan	10.1038/s41467-019-12985-x
BMP1	bone morphogenetic protein 1	8p21.3	2013	Hsu Y	Case-control	United States	10.1158/1078-0432.CCR-13-1734
BMP2	bone morphogenetic protein 2	20p12.3	2013	Hsu Y	Case-control	United States	10.1158/1078-0432.CCR-13-1734
BMP3	bone morphogenetic protein 3	4q21.21	2013	Hsu Y	Case-control	United States	10.1158/1078-0432.CCR-13-1734
BMP4	bone morphogenetic protein 4	14q22.2	2013	Hsu Y	Case-control	United States	10.1158/1078-0432.CCR-13-1734
BMP7	bone morphogenetic protein 7	20q13.31	2013	Hsu Y	Case-control	United States	10.1158/1078-0432.CCR-13-1734
BRAF	B-Raf proto-oncogene, serine/threonine kinase	7q34	2015	Bae H	? No informatio	Korea	10.1097/PGP.000000000000111
BRAF	B-Raf proto-oncogene, serine/threonine kinase	7q34	2012	Wang L	Case-control	United States	10.1007/s00432-011-1103-0
BRAF	B-Raf proto-oncogene, serine/threonine kinase	7q34	2016	Stelloo E	Cross-sectional	Netherlands	10.1158/1078-0432.CCR-15-2878
BRCA1	BRCA1 DNA repair associated	17q21.31	2015	Zheng L	Case-control	China	10.1016/j.ejogrb.2014.11.001
BRCA1	BRCA1 DNA repair associated	17q21.31	2017	Sun D	Cross-sectional	China	10.12892/ejgo3521.2017
BRCA1	BRCA1 DNA repair associated	17q21.31	2019	Gotoh, Osamu	Cohort	Japan	10.1038/s41467-019-12985-x
BRCA1	BRCA1 DNA repair associated	17q21.31	2019	De Jonge M	Cross-sectional	Netherlands	10.1158/1078-0432.CCR-18-1443
BRCA1	BRCA1 DNA repair associated	17q21.31	2019	Hájková N	Cross-sectional	Czech Republic	10.3892/ol.2018.9855
BRCA1	BRCA1 DNA repair associated	17q21.31	2016	Menghi F	Cross-sectional	United States	10.1073/pnas.1520010113
BRCA2	BRCA2 DNA repair associated	13q13.1	2018	Soumerai, Tara E	Cross-sectional	United States	10.1158/1078-0432.CCR-18-0412
BRCA2	BRCA2 DNA repair associated	13q13.1	2019	Gotoh, Osamu	Cohort	Japan	10.1038/s41467-019-12985-x
BRCA2	BRCA2 DNA repair associated	13q13.1	2019	De Jonge M	Cross-sectional	Netherlands	10.1158/1078-0432.CCR-18-1443
BRIP1	BRCA1 interacting protein C-terminal helicase 1	17q23.2	2019	Gotoh, Osamu	Cohort	Japan	10.1038/s41467-019-12985-x
BRIP1	BRCA1 interacting protein C-terminal helicase 1	17q23.2	2019	De Jonge M	Cross-sectional	Netherlands	10.1158/1078-0432.CCR-18-1443
KIT	KIT proto-oncogene, receptor tyrosine kinase	4q12	2015	Kafshdooz T	Case-control	Thailand	10.7314/apjcp.2015.16.17.7449
C10orf88	chromosome 10 open reading frame 88	10q26.13	2013	Liu J	Case-control	United States	10.1093/annonc/mds509
C18orf21	chromosome 18 open reading frame 21	18q12.2	2017	Wang W	Case-control	China	10.1177/1933719116657191
C7orf50	chromosome 7 open reading frame 50	7p22.3	2017	Wang W	Case-control	China	10.1177/1933719116657191
MUC16	mucin 16, cell surface associated	19p13.2	2014	Williams KA	Case-control	New England	10.1371/journal.pone.0088334
CAPN9	calpain 9	1q42.2	2012	Long J	Case-control	China	10.1158/1055-9965.EPI-11-1160
CAPZA2	capping actin protein of muscle Z-line subunit alpha	7q31.2	2015	Tamura R	Cross-sectional	England	10.1038/srep18657
CASP8	caspase 8	2q33.1	2017	Chang Y	Cross-sectional	Taiwan	10.3892/ijo.2017.3919
CBY1	chibby family member 1, beta catenin antagonist	22q13.1	2014	Stelloo E	Cross-sectional	Netherlands	10.1016/j.ygyno.2014.02.012
CCAT1	colon cancer associated transcript 1	8q24.21	2016	Zhao X	Case-control	China	10.1002/em.22031
CCNE1	cyclin E1	19q12	2015	Zheng L	Case-control	China	10.1016/j.ejogrb.2014.11.001
CCNE1	cyclin E1	19q12	2019	Gotoh, Osamu	Cohort	Japan	10.1038/s41467-019-12985-x
CCNE1	cyclin E1	19q12	2017	Ayhan A	Cross-sectional	United States	10.1038/modpathol.2016.160
CCNE1	cyclin E1	19q12	2019	De Jonge M	Cross-sectional	Netherlands	10.1158/1078-0432.CCR-18-1443
CCNE1	cyclin E1	19q12	2020	Casas-Arozamena C	Cohort	Spain	10.3390/jcm9020585
CCNE1	cyclin E1	19q12	2019	Buchynska L	Cross-sectional	Ukraine	10.32471/exp-oncology.2312-8852.vol-41-n

CD247	CD247 molecule	1q24.2	2017	Wang W	Case-control	China	10.1177/1933719116657191
CDH1	cadherin 1	16q22.1	2018	Geng Y	Case-control	China	10.3892/ol.2018.9469
CDK12	cyclin dependent kinase 12	17q12	2019	De Jonge M	Cross-sectional	Netherlands	10.1158/1078-0432.CCR-18-1443
CDK2	cyclin dependent kinase 2	12q13.2	2015	Zheng L	Case-control	China	10.1016/j.ejogrb.2014.11.001
CDKN1A	cyclin dependent kinase inhibitor 1A	6p21.2	2013	Zhao Y	Cross-sectional	United States	10.1073/pnas.1222577110
CDKN2A	cyclin dependent kinase inhibitor 2A	9p21.3	2020	Wujcicka W	Case-control	Poland	10.21873/invivo.11862
CDKN2A	cyclin dependent kinase inhibitor 2A	9p21.3	2016	Stelloo E	Cross-sectional	Netherlands	10.1158/1078-0432.CCR-15-2878
CFHR4	complement factor H related 4	1q31.3	2017	Wang W	Case-control	China	10.1177/1933719116657191
CHD4	chromodomain helicase DNA binding protein 4	12p13.31	2013	Zhao Y	Cross-sectional	United States	10.1073/pnas.1222577110
CHEK2	checkpoint kinase 2	22q12.1	2019	De Jonge M	Cross-sectional	Netherlands	10.1158/1078-0432.CCR-18-1443
CHEK2	checkpoint kinase 2	22q12.1	2011	O'Mara T	Case-control	Australia	10.1375/twin.14.4.328
CIDEB	cell death inducing DFFA like effector b	14q12	2017	Fialkova V	Case-control	Slovakia	10.4149/gpb_2017032
CIITA	class II major histocompatibility complex transacti	16p13.13	2017	Chang Y	Cross-sectional	Taiwan	10.3892/ijo.2017.3919
CLPTM1L	CLPTM1 like	5p15.33	2015	Carvajal-Carmona, Lu	Cross-sectional	International	10.1007/s00439-014-1515-4
CMYA5	cardiomyopathy associated 5	5q14.1	2017	Chang Y	Cross-sectional	Taiwan	10.3892/ijo.2017.3919
CNBD1	cyclic nucleotide binding domain containing 1	8q21.3	2014	De Vivo I	Case-control	United States	10.1007/s00439-013-1369-1
COMT	catechol-O-methyltransferase	22q11.21	2015	Ivanova, Tatiana I	Case-control	United States	10.1155/2015/593658
MT-CO2	mitochondrially encoded cytochrome c oxidase II	mitochondria	2013	Jarzabek K	Case-control	Poland	10.1007/s13277-013-0991-9
CPQ	carboxypeptidase Q	8q22.1	2015	Tamura R	Cross-sectional	England	10.1038/srep18657
CREBBP	CREB binding protein	16p13.3	2012	Li Y	Case-control	Sweden	10.1371/journal.pone.0042445
CRP	C-reactive protein	1q23.2	2015	Kito M	Cross-sectional	Japan	10.1620/tjem.237.25
CTCF	CCCTC-binding factor	16q22.1	2015	Walker CJ	Cohort	United States	10.1093/jnci/djv249
CTDSPL	CTD small phosphatase like	3p22.2	2013	Zhao Y	Cross-sectional	United States	10.1073/pnas.1222577110
CTNNB1	catenin beta 1	3p22.1	2012	Ikeda Y	Cross-sectional	Japan	10.1097/IGC.0b013e31824c6ea6
CTNNB1	catenin beta 1	3p22.1	2013	Kandath C	Cross-sectional	United States	10.1038/nature12113
CTNNB1	catenin beta 1	3p22.1	2018	Reiter J	Cross-sectional	United States	10.1126/science.aat7171
CTNNB1	catenin beta 1	3p22.1	2020	Casas-Arozamena C	Cohort	Spain	10.3390/jcm9020585
CTNNB1	catenin beta 1	3p22.1	2016	Stelloo E	Cross-sectional	Netherlands	10.1158/1078-0432.CCR-15-2878
CTNNB1	catenin beta 1	3p22.1	2011	Konopka B	Cross-sectional	United States	10.1016/j.humpath.2010.01.030
CTNNB1	catenin beta 1	3p22.1	2018	Matsuura M	Cross-sectional	Japan	10.1111/cas.13819
CTNNB1	catenin beta 1	3p22.1	2016	Anglesio M	Cross-sectional	Canada	10.1093/jnci/djv428
CTNNB1	catenin beta 1	3p22.1	2016	Chao A	Cross-sectional	United States	10.1016/j.ygyno.2016.07.114
CXCL3	C-X-C motif chemokine ligand 3	4q13.3	2013	Delahanty R	Case-control	China	10.1158/1055-9965.EPI-12-0903
CXCR4	C-X-C motif chemokine receptor 4	2q22.1	2012	Cacina C	Case-control	Netherlands	10.1007/s11033-011-0852-9
CYFIP2	cytoplasmic FMR1 interacting protein 2	5q33.3	2017	Chang Y	Cross-sectional	Taiwan	10.3892/ijo.2017.3919
CYP11A1	cytochrome P450 family 11 subfamily A member	15q24.1	2012	Razavi P	Case-control	United States	10.1002/ijc.26163
CYP11A1	cytochrome P450 family 11 subfamily A member	15q24.1	2010	Terry K	Case-control	United States	10.1016/j.ygyno.2010.02.002
CYP19A1	cytochrome P450 family 19 subfamily A member	15q21.2	2016	Thompson D	Case-control	United States	10.1530/ERC-15-0386
CYP19A1	cytochrome P450 family 19 subfamily A member	15q21.2	2010	Yang H	Case-control	Poland	10.1093/carcin/bgp328
CYP19A1	cytochrome P450 family 19 subfamily A member	15q21.2	2010	Low Y	Case-control	Sweden	10.1371/journal.pgen.1001012
CYP1A1	cytochrome P450 family 1 subfamily A member 1	15q24.1	2010	Ashton, Katie A	Case-control	Netherlands	10.1016/j.canep.2010.03.005

CYP1B1	cytochrome P450 family 1 subfamily B member 1	2p22.2	2010	Ashton, Katie A	Case-control	Netherlands	10.1016/j.canep.2010.03.005
CYP1B1	cytochrome P450 family 1 subfamily B member 1	2p22.2	2012	Lundin E	case-control	Sweden	10.1016/j.canep.2012.04.006
CYP1B1	cytochrome P450 family 1 subfamily B member 1	2p22.2	2010	Sliwinski T	Case-control	Australia	10.1111/j.1447-0756.2009.01143.x
CYP2E1	cytochrome P450 family 2 subfamily E member 1	10q26.3	2016	Hogervorst J	Cohort	Netherlands	10.1038/srep34902
CYP2R1	cytochrome P450 family 2 subfamily R member 1	11p15.2	2013	Liu J	Case-control	United States	10.1093/annonc/mds509
DACH2	dachshund family transcription factor 2	Xq21.2	2017	Wang W	Case-control	China	10.1177/1933719116657191
DCT	dopachrome tautomerase	13q32.1	2017	Chang Y	Cross-sectional	Taiwan	10.3892/ijo.2017.3919
DDR1	discoidin domain receptor tyrosine kinase 1	6p21.33	2014	Rudd ML	Cohort	England	10.1186/1471-2407-14-884
DHCR7	7-dehydrocholesterol reductase	11q13.4	2013	Liu J	Case-control	United States	10.1093/annonc/mds509
DICER1	dicer 1, ribonuclease III	14q32.13	2018	Oz M	Case-control	Turkey	10.4103/0973-1482.187291
DICER1	dicer 1, ribonuclease III	14q32.13	2011	Zigelboim I	Cohort	United States	10.1002/cncr.25665
DNAH14	dynein axonemal heavy chain 14	1q42.12	2017	Chang Y	Cross-sectional	Taiwan	10.3892/ijo.2017.3919
DNM1	dynamin 1	9q34.11	2017	Wang W	Case-control	China	10.1177/1933719116657191
DNMT1	DNA methyltransferase 1	19p13.2	2014	Zhang B	Cross-sectional	England	10.1186/1471-2164-15-868
TRDMT1	tRNA aspartic acid methyltransferase 1	10p13	2014	Zhang B	Cross-sectional	England	10.1186/1471-2164-15-868
DNMT3A	DNA methyltransferase 3 alpha	2p23.3	2014	Zhang B	Cross-sectional	England	10.1186/1471-2164-15-868
DNMT3B	DNA methyltransferase 3 beta	20q11.21	2014	Zhang B	Cross-sectional	England	10.1186/1471-2164-15-868
DPP6	dipeptidyl peptidase like 6	7q36.2	2014	De Vivo I	Case-control	United States	10.1007/s00439-013-1369-1
DST	dystonin	6p12.1	2017	Chang Y	Cross-sectional	Taiwan	10.3892/ijo.2017.3919
DYRK1B	dual specificity tyrosine phosphorylation regulated	19q13.2	2013	Davis SJ	Cross-sectional	United States	10.1158/1078-0432.CCR-12-3433
E2F4	E2F transcription factor 4	16q22.1	2016	Nagasawa T	Cross-sectional	Japan	10.1097/IGC.0000000000000824
EGFR	epidermal growth factor receptor	7p11.2	2012	Leslie, Kimberly K	Phase II trial	United States	10.1016/j.ygyno.2012.07.127
EGFR	epidermal growth factor receptor	7p11.2	2012	Cossu-Rocca P	Cross-sectional	Italy	10.1097/PGP.0b013e31824fe289
EGFR	epidermal growth factor receptor	7p11.2	2012	Cossu-Rocca P	Cross-sectional	Italy	10.1097/PGP.0b013e31824fe289
EGFR	epidermal growth factor receptor	7p11.2	2019	Brooks R	Cross-sectional	United States	10.1016/j.ygyno.2019.02.028
EIF2AK3	eukaryotic translation initiation factor 2 alpha kina	2p11.2	2012	Leslie, Kimberly K	Phase II trial	United States	10.1016/j.ygyno.2012.07.127
ELAPOR1	endosome-lysosome associated apoptosis and auto	1p13.3	2016	Bolton, Katherine A	Case-control	England	10.1186/s13104-016-2086-3
ERBB4	erb-b2 receptor tyrosine kinase 4	2q34	2015	Wang L	Case-control	China	10.1007/s13258-015-0336-8
ERCC1	ERCC excision repair 1, endonuclease non-catalyti	19q13.32	2011	Doherty J	Case-control	United States	10.1158/1055-9965.EPI-11-0119
ERCC1	ERCC excision repair 1, endonuclease non-catalyti	19q13.32	2016	Chen L	Case-control	China	10.2147/OTT.S110976
ERCC2	ERCC excision repair 2, TFIIH core complex helic	19q13.32	2011	Doherty J	Case-control	United States	10.1158/1055-9965.EPI-11-0119
ERCC2	ERCC excision repair 2, TFIIH core complex helic	19q13.32	2012	Sobczuk A	Case-control	Netherlands	10.1007/s12253-012-9537-5
ERCC2	ERCC excision repair 2, TFIIH core complex helic	19q13.32	2016	Michalska MM	Case-control	Poland	10.1007/s13277-015-4040-8
ERCC2	ERCC excision repair 2, TFIIH core complex helic	19q13.32	2018	Smolarz B	Case-control	Poland	10.21873/anticanres.12846
ERCC3	ERCC excision repair 3, TFIIH core complex helic	2q14.3	2011	Doherty J	Case-control	United States	10.1158/1055-9965.EPI-11-0119
ERCC4	ERCC excision repair 4, endonuclease catalytic su	16p13.12	2011	Doherty J	Case-control	United States	10.1158/1055-9965.EPI-11-0119
ERCC5	ERCC excision repair 5, endonuclease	13q33.1	2011	Doherty J	Case-control	United States	10.1158/1055-9965.EPI-11-0119
ESR1	estrogen receptor 1	6q25.1-q25.2	2013	Jarzabek K	Case-control	Poland	10.1007/s13277-013-0991-9
ESR1	estrogen receptor 1	6q25.1-q25.2	2013	Wik E	Cross-sectional	Norway	10.1158/1078-0432.CCR-12-3039
ESR1	estrogen receptor 1	6q25.1-q25.2	2017	Wang W	Case-control	China	10.1177/1933719116657191
ESR1	estrogen receptor 1	6q25.1-q25.2	2011	Li G	Case-control	China	10.5732/cjc.010.10516

ESR1	estrogen receptor 1	6q25.1-q25.2	2012	Lundin E	case-control	Sweden	10.1016/j.canep.2012.04.006
ESR1	estrogen receptor 1	6q25.1-q25.2	2015	O'Mara T	Case-control	International	10.1530/ERC-15-0319
ESR1	estrogen receptor 1	6q25.1-q25.2	2020	Huang C	Cross-sectional	Taiwan	10.3389/fonc.2019.01508
ESR1	estrogen receptor 1	6q25.1-q25.2	2010	Sliwinski T	Case-control	Australia	10.1111/j.1447-0756.2009.01143.x
ESR2	estrogen receptor 2	14q23.2-q23.3	2013	Jarzabek K	Case-control	Poland	10.1007/s13277-013-0991-9
ESR2	estrogen receptor 2	14q23.2-q23.3	2014	Latrich C	Case-control	Germany	10.1007/s00404-013-3012-8
ESR2	estrogen receptor 2	14q23.2-q23.3	2010	Sliwinski T	Case-control	Australia	10.1111/j.1447-0756.2009.01143.x
EYA2	EYA transcriptional coactivator and phosphatase 2	20q13.12	2020	Huang C	Cross-sectional	Taiwan	10.3389/fonc.2019.01508
FABP1	fatty acid binding protein 1	2p11.2	2013	Delahanty R	Case-control	China	10.1158/1055-9965.EPI-12-0903
C1QTNF12	C1q and TNF related 12	1p36.33	2013	Zhao Y	Cross-sectional	United States	10.1073/pnas.1222577110
SLF2	SMC5-SMC6 complex localization factor 2	10q24.31	2017	Chang Y	Cross-sectional	Taiwan	10.3892/ijo.2017.3919
FAS	Fas cell surface death receptor	10q23.31	2015	Nallapalle SR	Case-control	United States	10.1007/s13277-014-2896-7
FASLG	Fas ligand	1q24.3	2015	Nallapalle SR	Case-control	United States	10.1007/s13277-014-2896-7
FASLG	Fas ligand	1q24.3	2010	Janiec-Jankowska A	Cross-sectional	England	10.1111/jgc.0b013e3181c83675
FASLG	Fas ligand	1q24.3	2019	Wujcicka W	Case-control	Poland	10.21873/invivo.11559
FASLG	Fas ligand	1q24.3	2010	Ghasemi N	Case-control	Iran	10.1016/j.cancergencyto.2009.09.013
FASLG	Fas ligand	1q24.3	2010	Ashton, Katie A	Case-control	Netherlands	10.1016/j.canep.2010.03.005
FASLG	Fas ligand	1q24.3	2013	Zajac A	Case-control	Poland	10.5604/17322693.1080804
FASLG	Fas ligand	1q24.3	2018	Matsuura M	Cross-sectional	Japan	10.1111/cas.13819
FASLG	Fas ligand	1q24.3	2020	Kolin D	Cross-sectional	United States	10.1097/PAS.0000000000001375
FASLG	Fas ligand	1q24.3	2014	Zajac A	Case-control	United States	10.1007/s12032-014-0286-z
FBXW7	F-box and WD repeat domain containing 7	4q31.3	2013	Zhao Y	Cross-sectional	United States	10.1073/pnas.1222577110
FBXW7	F-box and WD repeat domain containing 7	4q31.3	2016	Stelloo E	Cross-sectional	Netherlands	10.1158/1078-0432.CCR-15-2878
FGFR2	fibroblast growth factor receptor 2	10q26.13	2018	Yang L	Cross-sectional	England	10.1097/IGC.0000000000001227
FGFR2	fibroblast growth factor receptor 2	10q26.13	2017	Yildirim M	Case-control	United States	10.1007/s10528-017-9796-7
FGFR2	fibroblast growth factor receptor 2	10q26.13	2020	Casas-Arozamena C	Cohort	Spain	10.3390/jcm9020585
FGFR2	fibroblast growth factor receptor 2	10q26.13	2016	Stelloo E	Cross-sectional	Netherlands	10.1158/1078-0432.CCR-15-2878
FGFR3	fibroblast growth factor receptor 3	4p16.3	2019	Buchynska L	Cross-sectional	Ukraine	10.32471/exp-oncology.2312-8852.vol-41-n
FGFR3	fibroblast growth factor receptor 3	4p16.3	2016	Stelloo E	Cross-sectional	Netherlands	10.1158/1078-0432.CCR-15-2878
FOXL2	forkhead box L2	3q22.3	2016	Stelloo E	Cross-sectional	Netherlands	10.1158/1078-0432.CCR-15-2878
FOXP3	forkhead box P3	Xp11.23	2018	You D	Case-control	China	10.1097/MD.000000000010582
MTOR	mechanistic target of rapamycin kinase	1p36.22	2012	Wang L	Case-control	United States	10.1007/s00432-011-1103-0
FTO	FTO alpha-ketoglutarate dependent dioxygenase	16q12.2	2010	Gaudet M	Case-control	United States	10.1158/1055-9965.EPI-10-0515
FTO	FTO alpha-ketoglutarate dependent dioxygenase	16q12.2	2011	Lurie G	Case-control	United States	10.1371/journal.pone.0016756
GAB2	GRB2 associated binding protein 2	11q14.1	2013	Davis SJ	Cross-sectional	United States	10.1158/1078-0432.CCR-12-3433
GADD45A	growth arrest and DNA damage inducible alpha	1p31.3	2017	Fialkova V	Case-control	Slovakia	10.4149/gpb_2017032
GC	GC vitamin D binding protein	4q13.3	2013	Liu J	Case-control	United States	10.1093/annonc/mds509
GSTM1	glutathione S-transferase mu 1	1p13.3	2010	Ashton, Katie A	Case-control	Netherlands	10.1016/j.canep.2010.03.005
GSTM1	glutathione S-transferase mu 1	1p13.3	2011	Karageorgi S	Case-control	United States	10.1158/1055-9965.EPI-11-0190
GSTT1	glutathione S-transferase theta 1	22q11.23 alter	2011	Karageorgi S	Case-control	United States	10.1158/1055-9965.EPI-11-0190
HCFC1R1	host cell factor C1 regulator 1	16p13.3	2013	Zhao Y	Cross-sectional	United States	10.1073/pnas.1222577110

ERBB2	erb-b2 receptor tyrosine kinase 2	17q12	2012	Leslie, Kimberly K	Phase II trial	United States	10.1016/j.ygyno.2012.07.127
ERBB2	erb-b2 receptor tyrosine kinase 2	17q12	2019	Buchynska L	Cross-sectional	Ukraine	10.32471/exp-oncology.2312-8852.vol-41-n
HFE	homeostatic iron regulator	6p22.2	2015	Ivanova, Tatiana I	Case-control	United States	10.1155/2015/593658
CYGB	cytoglobin	17q25.1	2016	Sun Y	Case-control	United States	10.1002/mc.22373
HHEX	hematopoietically expressed homeobox	10q23.33	2010	Gaudet M	Case-control	United States	10.1158/1055-9965.EPI-10-0515
HIF1A	hypoxia inducible factor 1 subunit alpha	14q23.2	2014	Kafshdooz L	Case-control	Thailand	10.7314/apjcp.2014.15.23.10393
HMBS	hydroxymethylbilane synthase	11q23.3	2012	Kowalewska M	Case-control	United States	10.1016/j.clinbiochem.2012.01.001
HNF1B	HNF1 homeobox B	17q12	2015	Painter J	Case-control	International	10.1093/hmg/ddu552
HNF1B	HNF1 homeobox B	17q12	2012	Setiawan V	Case-control	United States	10.1371/journal.pone.0030390
HNF1B	HNF1 homeobox B	17q12	2011	Spurdle A	Case-control	Australia	10.1038/ng.812
HNF1B	HNF1 homeobox B	17q12	2015	Mandato VD	Cohort	England	10.1186/s12885-015-1246-5
OGG1	8-oxoguanine DNA glycosylase	3p25.3	2011	Krupa R	Case-control	Netherlands	10.1007/s11033-010-0214-z
HPRT1	hypoxanthine phosphoribosyltransferase 1	Xq26.2-q26.3	2012	Kowalewska M	Case-control	United States	10.1016/j.clinbiochem.2012.01.001
HRAS	HRas proto-oncogene, GTPase	11p15.5	2016	Stelloo E	Cross-sectional	Netherlands	10.1158/1078-0432.CCR-15-2878
HSD17B2	hydroxysteroid 17-beta dehydrogenase 2	16q23.3	2011	Karageorgi S	Case-control	United States	10.1016/j.ygyno.2010.11.014
HSD17B4	hydroxysteroid 17-beta dehydrogenase 4	5q23.1	2011	Karageorgi S	Case-control	United States	10.1016/j.ygyno.2010.11.014
IGF1	insulin like growth factor 1	12q23.2	2016	Kwasniewski W	Case-control	Poland	10.3892/mmr.2016.5181
IGF1	insulin like growth factor 1	12q23.2	2011	McGrath M	Case-control	United States	10.1016/j.ygyno.2010.10.012
IGF1R	insulin like growth factor 1 receptor	15q26.3	2017	Wang W	Case-control	China	10.1177/1933719116657191
IGF1R	insulin like growth factor 1 receptor	15q26.3	2017	Wang W	Case-control	China	10.1177/1933719116657191
IGF2	insulin like growth factor 2	11p15.5	2011	McGrath M	Case-control	United States	10.1016/j.ygyno.2010.10.012
IGF2R	insulin like growth factor 2 receptor	6q25.3	2016	Nagasawa T	Cross-sectional	Japan	10.1097/IGC.0000000000000824
IGFBP1	insulin like growth factor binding protein 1	7p12.3	2011	McGrath M	Case-control	United States	10.1016/j.ygyno.2010.10.012
IGFBP3	insulin like growth factor binding protein 3	7p12.3	2011	McGrath M	Case-control	United States	10.1016/j.ygyno.2010.10.012
IGSF10	immunoglobulin superfamily member 10	3q25.1	2017	Chang Y	Cross-sectional	Taiwan	10.3892/ijo.2017.3919
IL6	interleukin 6	7p15.3	2016	Wang HY	Case-control	China	10.1007/s12253-016-0073-6
IL1A	interleukin 1 alpha	2q14.1	2016	Yu X	Case-control	China	10.1111/jog.12989
IL1A	interleukin 1 alpha	2q14.1	2020	Liu Y	Case-control	China	10.1111/jji.12463
IL1R2	interleukin 1 receptor type 2	2q11.2	2019	Wu J	Case-control	China	10.1002/mgg3.650
IL24	interleukin 24	1q32.1	2017	Chang Y	Cross-sectional	Taiwan	10.3892/ijo.2017.3919
IL32	interleukin 32	16p13.3	2015	Yu X	Case-control	China	10.1007/s13277-015-3186-8
IL6	interleukin 6	7p15.3	2019	Cai J	Case-control	China	10.1002/mgg3.600
IL6	interleukin 6	7p15.3	2013	Delahanty R	Case-control	China	10.1158/1055-9965.EPI-12-0903
IL7R	interleukin 7 receptor	5p13.2	2017	Wang W	Case-control	China	10.1177/1933719116657191
IMP4	IMP U3 small nucleolar ribonucleoprotein 4	2q21.1	2017	Chang Y	Cross-sectional	Taiwan	10.3892/ijo.2017.3919
INSR	insulin receptor	19p13.2	2017	Hu J	Cross-sectional	China	10.1038/gt.2017.26
IRS2	insulin receptor substrate 2	13q34	2010	Cayan F	Case-control	England	10.3109/09513591003632241
JAKMIP1	janus kinase and microtubule interacting protein 1	4p16.1	2017	Chang Y	Cross-sectional	Taiwan	10.3892/ijo.2017.3919
KEAP1	kelch like ECH associated protein 1	19p13.2	2011	Wong TF	Cross-sectional	England	10.1097/IGC.0b013e31822d0eb2
KIT	KIT proto-oncogene, receptor tyrosine kinase	4q12	2012	Cossu-Rocca P	Cross-sectional	Italy	10.1097/PGP.0b013e31824fe289
KRAS	KRAS proto-oncogene, GTPase	12p12.1	2012	Ikeda Y	Cross-sectional	Japan	10.1097/IGC.0b013e31824c6ea6

KRAS	KRAS proto-oncogene, GTPase	12p12.1	2013	Kandoth C	Cross-sectional	United States	10.1038/nature12113
KRAS	KRAS proto-oncogene, GTPase	12p12.1	2015	Bae H	? No informatio	Korea	10.1097/PGP.0000000000000111
KRAS	KRAS proto-oncogene, GTPase	12p12.1	2010	Murayama-Hosokawa	Case-control	Japan	10.1038/onc.2009.474
KRAS	KRAS proto-oncogene, GTPase	12p12.1	2012	Wang L	Case-control	United States	10.1007/s00432-011-1103-0
KRAS	KRAS proto-oncogene, GTPase	12p12.1	2020	Casas-Arozamena C	Cohort	Spain	10.3390/jcm9020585
KRAS	KRAS proto-oncogene, GTPase	12p12.1	2013	Zhao Y	Cross-sectional	United States	10.1073/pnas.1222577110
KRAS	KRAS proto-oncogene, GTPase	12p12.1	2019	Hájková N	Cross-sectional	Czech Republic	10.3892/ol.2018.9855
KRAS	KRAS proto-oncogene, GTPase	12p12.1	2016	Stelloo E	Cross-sectional	Netherlands	10.1158/1078-0432.CCR-15-2878
KRAS	KRAS proto-oncogene, GTPase	12p12.1	2011	Konopka B	Cross-sectional	United States	10.1016/j.humpath.2010.01.030
KRAS	KRAS proto-oncogene, GTPase	12p12.1	2015	Berg A	Case-control	Norway	10.18632/oncotarget.2675
KRAS	KRAS proto-oncogene, GTPase	12p12.1	2014	Lee L	Case-control	United States	10.1371/journal.pone.0094167
KRAS	KRAS proto-oncogene, GTPase	12p12.1	2018	Matsuura M	Cross-sectional	Japan	10.1111/cas.13819
KRAS	KRAS proto-oncogene, GTPase	12p12.1	2010	Dobrzycka B	Cross-sectional	United States	10.1002/jjc.25077
KRAS	KRAS proto-oncogene, GTPase	12p12.1	2015	Suga Y	Cross-sectional	Japan	10.1111/pin.12274
KRAS	KRAS proto-oncogene, GTPase	12p12.1	2012	Nikolic A	Cross-sectional	Serbia	10.1097/IGC.0b013e31823fabab
KRAS	KRAS proto-oncogene, GTPase	12p12.1	2015	Wong S	Cross-sectional	Australia	10.1038/bjc.2015.80
KRAS	KRAS proto-oncogene, GTPase	12p12.1	2019	Inoue S	Cross-sectional	Japan	10.1038/s41467-019-13708-y
LAPTM4B	lysosomal protein transmembrane 4 beta	8q22.1	2013	Meng F	Case-control	England	10.3109/1354750X.2012.752526
LEP	leptin	7q32.1	2017	Bieńkiewicz J	Case-control	Poland	10.1016/j.ejogrb.2017.09.022
LEP	leptin	7q32.1	2012	Chen X	Case-control	China	10.1002/cncr.26552
LEPR	leptin receptor	1p31.3	2012	Chen X	Case-control	China	10.1002/cncr.26552
LIG1	DNA ligase 1	19q13.33	2011	Doherty J	Case-control	United States	10.1158/1055-9965.EPI-11-0119
LINGO2	leucine rich repeat and Ig domain containing 2	9p21.2-p21.1	2014	De Vivo I	Case-control	United States	10.1007/s00439-013-1369-1
MACF1	microtubule actin crosslinking factor 1	1p34.3	2017	Chang Y	Cross-sectional	Taiwan	10.3892/ijo.2017.3919
MAPT	microtubule associated protein tau	17q21.31	2017	Chang Y	Cross-sectional	Taiwan	10.3892/ijo.2017.3919
MBL2	mannose binding lectin 2	10q21.1	2012	Nevadunsky N	Case-control	United States	10.1016/j.ejogrb.2012.04.020
MC4R	melanocortin 4 receptor	18q21.32	2011	Lurie G	Case-control	United States	10.1371/journal.pone.0016756
MCM6	minichromosome maintenance complex componen	2q21.3	2017	Chang Y	Cross-sectional	Taiwan	10.3892/ijo.2017.3919
MDM2	MDM2 proto-oncogene	12q15	2017	Gansmo L	Case-control	Norway	10.1186/s12885-017-3094-y
MDM2	MDM2 proto-oncogene	12q15	2019	Wujcicka W	Case-control	Poland	10.21873/invivo.11559
MDM2	MDM2 proto-oncogene	12q15	2014	Knappskog S	Cohort	United States	10.18632/oncotarget.1910
MDM2	MDM2 proto-oncogene	12q15	2017	Wu J	Case-control	China	10.14715/cmb/2017.63.10.20
MDM2	MDM2 proto-oncogene	12q15	2012	Zajac A	Cross-sectional	Poland	10.5114/PJP.2012.32776
MDM2	MDM2 proto-oncogene	12q15	2013	Yoneda T	Case-control	Japan	10.3892/or.2013.2433
MDM2	MDM2 proto-oncogene	12q15	2012	Knappskog S	Case-control	Norway	10.1016/j.ejca.2011.10.024
MDM2	MDM2 proto-oncogene	12q15	2014	Zajac A	Case-control	United States	10.1007/s12032-014-0286-z
MDM2	MDM2 proto-oncogene	12q15	2015	Okamoto K	Case-control	Japan	10.1186/s12881-015-0216-8
MDM4	MDM4 regulator of p53	1q32.1	2017	Depreeuw J	Cohort	International	10.1158/1078-0432.CCR-17-0566
MEIS1	Meis homeobox 1	2p14	2017	Wang W	Case-control	China	10.1177/1933719116657191
MET	MET proto-oncogene, receptor tyrosine kinase	7q31	2015	Tamura R	Cross-sectional	England	10.1038/srep18657
MGMT	O-6-methylguanine-DNA methyltransferase	10q26.3	2011	O'Mara T	Case-control	Australia	10.1375/twin.14.4.328

MLH1	mutL homolog 1	3p22.2	2019	Dong F	Cross-sectional	United States	10.1038/s41379-018-0125-4
MLH1	mutL homolog 1	3p22.2	2018	Soumerai, Tara E	Cross-sectional	United States	10.1158/1078-0432.CCR-18-0412
MLH1	mutL homolog 1	3p22.2	2019	Gotoh, Osamu	Cohort	Japan	10.1038/s41467-019-12985-x
MLH1	mutL homolog 1	3p22.2	2011	Lacey Jr	Case-control	Poland	10.1016/j.ygyno.2010.10.016
MLH1	mutL homolog 1	3p22.2	2019	Hájková N	Cross-sectional	Czech Republic	10.3892/ol.2018.9855
MLH1	mutL homolog 1	3p22.2	2015	Moir-Meyer G	Case-control	New Zealand	10.1007/s00439-014-1507-4
MLH3	mutL homolog 3	14q24.3	2019	Hájková N	Cross-sectional	Czech Republic	10.3892/ol.2018.9855
MMP2	matrix metalloproteinase 2	16q12.2	2010	Yi YC	Case-control	Germany	10.1515/CCLM.2010.082
MMP3	matrix metalloproteinase 3	11q22.2	2010	Yi YC	Case-control	Germany	10.1515/CCLM.2010.082
MMP7	matrix metalloproteinase 7	11q22.2	2010	Yi YC	Case-control	Germany	10.1515/CCLM.2010.082
MMP9	matrix metalloproteinase 9	20q13.12	2013	Delahanty R	Case-control	China	10.1158/1055-9965.EPI-12-0903
MOCOS	molybdenum cofactor sulfurase	18q12.2	2017	Chang Y	Cross-sectional	Taiwan	10.3892/ijo.2017.3919
MSH2	mutS homolog 2	2p21-p16.3	2019	Dong F	Cross-sectional	United States	10.1038/s41379-018-0125-4
MSH2	mutS homolog 2	2p21-p16.3	2019	Gotoh, Osamu	Cohort	Japan	10.1038/s41467-019-12985-x
MSH2	mutS homolog 2	2p21-p16.3	2011	Lacey Jr	Case-control	Poland	10.1016/j.ygyno.2010.10.016
MSH2	mutS homolog 2	2p21-p16.3	2015	Moir-Meyer G	Case-control	New Zealand	10.1007/s00439-014-1507-4
MSH3	mutS homolog 3	5q14.1	2016	Nagasawa T	Cross-sectional	Japan	10.1097/IGC.0000000000000824
MSH6	mutS homolog 6	2p16.3	2019	Dong F	Cross-sectional	United States	10.1038/s41379-018-0125-4
MSH6	mutS homolog 6	2p16.3	2019	Gotoh, Osamu	Cohort	Japan	10.1038/s41467-019-12985-x
MSH6	mutS homolog 6	2p16.3	2018	Yang L	Cross-sectional	England	10.1097/IGC.0000000000001227
MSH6	mutS homolog 6	2p16.3	2016	Bienkiewicz J	Case-control	Poland	10.1007/s12253-015-9985-9
MSH6	mutS homolog 6	2p16.3	2016	Nagasawa T	Cross-sectional	Japan	10.1097/IGC.0000000000000824
MSH6	mutS homolog 6	2p16.3	2015	Moir-Meyer G	Case-control	New Zealand	10.1007/s00439-014-1507-4
MSR1	macrophage scavenger receptor 1	8p22	2013	Delahanty R	Case-control	China	10.1158/1055-9965.EPI-12-0903
MSX1	msh homeobox 1	4p16.2	2020	Huang C	Cross-sectional	Taiwan	10.3389/fonc.2019.01508
MT-ND1	mitochondrially encoded NADH:ubiquinone oxidoreductase 1	mitochondria	2016	Sun Y	Case-control	United States	10.1002/mc.22373
MTHFR	methylenetetrahydrofolate reductase	1p36.22	2013	Liu J	Cohort	United States	10.1038/bjc.2012.534
MUC1	mucin 1, cell surface associated	1q22	2014	Williams KA	Case-control	New England	10.1371/journal.pone.0088334
MYC	MYC proto-oncogene, bHLH transcription factor	8q24.21	2020	Casas-Arozamena C	Cohort	Spain	10.3390/jcm9020585
MYC	MYC proto-oncogene, bHLH transcription factor	8q24.21	2019	Buchynska L	Cross-sectional	Ukraine	10.32471/exp-oncology.2312-8852.vol-41-n
NCOA2	nuclear receptor coactivator 2	8q13.3	2012	Li Y	Case-control	Sweden	10.1371/journal.pone.0042445
NEDD4L	NEDD4 like E3 ubiquitin protein ligase	18q21.31	2014	De Vivo I	Case-control	United States	10.1007/s00439-013-1369-1
NF1	neurofibromin 1	17q11.2	2019	Gotoh, Osamu	Cohort	Japan	10.1038/s41467-019-12985-x
NFIC	nuclear factor I C	19p13.3	2013	Li D	Cohort	Japan	10.1038/onc.2012.509
NFKB1	nuclear factor kappa B subunit 1	4q24	2017	Wang W	Case-control	China	10.1177/1933719116657191
NIPSNAP3B	nipsnap homolog 3B	9q31.1	2017	Wang W	Case-control	China	10.1177/1933719116657191
NME1	NME/NM23 nucleoside diphosphate kinase 1	17q21.33	2010	Wang P	Case-control	Taiwan	10.1016/j.ygyno.2010.06.013
NME1	NME/NM23 nucleoside diphosphate kinase 1	17q21.33	2019	Brooks R	Cross-sectional	United States	10.1016/j.ygyno.2019.02.028
NOD1	nucleotide binding oligomerization domain containing 1	7p14.3	2010	Ashton, Katie A	Case-control	England	10.1186/1471-2407-10-382
NOD2	nucleotide binding oligomerization domain containing 2	16q12.1	2010	Ashton, Katie A	Case-control	England	10.1186/1471-2407-10-382
NOTCH2	notch receptor 2	1p12	2017	Chang Y	Cross-sectional	Taiwan	10.3892/ijo.2017.3919



NPRL2	NPR2 like, GATOR1 complex subunit	3p21.31	2018	Kolin D	Cross-sectional	United States	10.1038/s41379-018-0049-z
NRAS	NRAS proto-oncogene, GTPase	1p13.2	2016	Stelloo E	Cross-sectional	Netherlands	10.1158/1078-0432.CCR-15-2878
NRAS	NRAS proto-oncogene, GTPase	1p13.2	2015	Wong S	Cross-sectional	Australia	10.1038/bjc.2015.80
GABPA	GA binding protein transcription factor subunit alpha	21q21.3	2011	Wong TF	Cross-sectional	England	10.1097/IGC.0b013e31822d0eb2
NUDT5	nudix hydrolase 5	10p14	2017	Chang Y	Cross-sectional	Taiwan	10.3892/ijo.2017.3919
OGG1	8-oxoguanine DNA glycosylase	3p25.3	2012	Sobczuk A	Case-control	Netherlands	10.1007/s12253-012-9537-5
OGG1	8-oxoguanine DNA glycosylase	3p25.3	2018	Smolarz B	Case-control	Poland	10.21873/anticancer.12846
OGG1	8-oxoguanine DNA glycosylase	3p25.3	2015	Wang L	Case-control	China	10.1111/jphp.12348
CDKN2A	cyclin dependent kinase inhibitor 2A	9p21.3	2019	Wujcicka W	Case-control	Poland	10.21873/invivo.11559
CDKN1A	cyclin dependent kinase inhibitor 1A	6p21.2	2015	Yin D	Case-control	China	10.1007/s12013-014-0180-5
P2RX3	purinergic receptor P2X 3	11q12.1	2017	Wang W	Case-control	China	10.1177/1933719116657191
PAK4	p21 (RAC1) activated kinase 4	19q13.2	2013	Davis SJ	Cross-sectional	United States	10.1158/1078-0432.CCR-12-3433
PALB2	partner and localizer of BRCA2	16p12.2	2019	De Jonge M	Cross-sectional	Netherlands	10.1158/1078-0432.CCR-18-1443
PCDH17	protocadherin 17	13q21.1	2017	Chang Y	Cross-sectional	Taiwan	10.3892/ijo.2017.3919
PCDHGB4	protocadherin gamma subfamily B, 4	5q31	2017	Chang Y	Cross-sectional	Taiwan	10.3892/ijo.2017.3919
PCMTD1	protein-L-isoaspartate (D-aspartate) O-methyltransferase	8q11.23	2017	Chang Y	Cross-sectional	Taiwan	10.3892/ijo.2017.3919
CD274	CD274 molecule	9p24.1	2014	Gatalica Z	Cross-sectional	United States	10.1158/1055-9965.EPI-14-0654
PDGFRA	platelet derived growth factor receptor alpha	4q12	2012	Cossu-Rocca P	Cross-sectional	Italy	10.1097/PGP.0b013e31824fe289
PDGFRB	platelet derived growth factor receptor beta	5q32	2012	Cossu-Rocca P	Cross-sectional	Italy	10.1097/PGP.0b013e31824fe289
PDCD1LG2	programmed cell death 1 ligand 2	9p24.1	2014	Gatalica Z	Cross-sectional	United States	10.1158/1055-9965.EPI-14-0654
PDPK1	3-phosphoinositide dependent protein kinase 1	16p13.3	2012	Wang L	Case-control	United States	10.1007/s00432-011-1103-0
PGR	progesterone receptor	11q22.1	2010	Lee E	Case-control	United States	10.1093/carcin/bgq113
PGR	progesterone receptor	11q22.1	2011	O'Mara T	Case-control	Australia	10.1093/carcin/bgq263
PIK3CA	phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit alpha	3q26.32	2011	Cheung L	Cross-sectional	United States	10.1158/2159-8290.CD-11-0039
NOP53	NOP53 ribosome biogenesis factor	19q13.33	2018	Yoshimoto M	Cross-sectional	Japan	10.1159/000487189
PIK3CA	phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit alpha	3q26.32	2012	Ikeda Y	Cross-sectional	Japan	10.1097/IGC.0b013e31824c6ea6
PIK3CA	phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit alpha	3q26.32	2013	Kandath C	Cross-sectional	United States	10.1038/nature12113
PIK3CA	phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit alpha	3q26.32	2017	Wu J	Case-control	China	10.14715/cmb/2017.63.10.20
PIK3CA	phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit alpha	3q26.32	2013	Wik E	Cross-sectional	Norway	10.1158/1078-0432.CCR-12-3413
PIK3CA	phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit alpha	3q26.32	2015	Bae H	? No information	Korea	10.1097/PGP.000000000000111
PIK3CA	phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit alpha	3q26.32	2010	Murayama-Hosokawa	Case-control	Japan	10.1038/onc.2009.474
PIK3CA	phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit alpha	3q26.32	2017	Russo M	Cross-sectional	United States	10.1016/j.humphath.2017.07.003
PIK3CA	phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit alpha	3q26.32	2018	Yang L	Cross-sectional	England	10.1097/IGC.000000000001227
PIK3CA	phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit alpha	3q26.32	2012	Wang L	Case-control	United States	10.1007/s00432-011-1103-0
PIK3CA	phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit alpha	3q26.32	2018	Reiter J	Cross-sectional	United States	10.1126/science.aat7171
PIK3CA	phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit alpha	3q26.32	2011	Lacey Jr	Case-control	Poland	10.1016/j.ygyno.2010.10.016
PIK3CA	phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit alpha	3q26.32	2020	Casas-Arozamena C	Cohort	Spain	10.3390/jcm9020585
PIK3CA	phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit alpha	3q26.32	2011	Cheung L	Cross-sectional	United States	10.1158/2159-8290.CD-11-0039
PIK3CA	phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit alpha	3q26.32	2013	Zhao Y	Cross-sectional	United States	10.1073/pnas.1222577110
PIK3CA	phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit alpha	3q26.32	2019	Hájková N	Cross-sectional	Czech Republic	10.3892/ol.2018.9855
PIK3CA	phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit alpha	3q26.32	2016	Stelloo E	Cross-sectional	Netherlands	10.1158/1078-0432.CCR-15-2878

PIK3CA	phosphatidylinositol-4,5-bisphosphate 3-kinase cat	3q26.32	2011	Konopka B	Cross-sectional	United States	10.1016/j.humpath.2010.01.030
PIK3CA	phosphatidylinositol-4,5-bisphosphate 3-kinase cat	3q26.32	2015	Berg A	Case-control	Norway	10.18632/oncotarget.2675
PIK3CA	phosphatidylinositol-4,5-bisphosphate 3-kinase cat	3q26.32	2015	Berg A	Case-control	Norway	10.18632/oncotarget.2675
PIK3CA	phosphatidylinositol-4,5-bisphosphate 3-kinase cat	3q26.32	2018	Matsuura M	Cross-sectional	Japan	10.1111/cas.13819
PIK3CA	phosphatidylinositol-4,5-bisphosphate 3-kinase cat	3q26.32	2020	Kolin D	Cross-sectional	United States	10.1097/PAS.0000000000001375
PIK3CA	phosphatidylinositol-4,5-bisphosphate 3-kinase cat	3q26.32	2016	Chao A	Cross-sectional	United States	10.1016/j.ygyno.2016.07.114
PIK3CA	phosphatidylinositol-4,5-bisphosphate 3-kinase cat	3q26.32	2015	Suga Y	Cross-sectional	Japan	10.1111/pin.12274
PIK3CA	phosphatidylinositol-4,5-bisphosphate 3-kinase cat	3q26.32	2015	Wong S	Cross-sectional	Australia	10.1038/bjc.2015.80
PIK3CB	phosphatidylinositol-4,5-bisphosphate 3-kinase cat	3q22.3	2012	Wang L	Case-control	United States	10.1007/s00432-011-1103-0
PIK3R1	phosphoinositide-3-kinase regulatory subunit 1	5q13.1	2012	Wang L	Case-control	United States	10.1007/s00432-011-1103-0
PIK3R1	phosphoinositide-3-kinase regulatory subunit 1	5q13.1	2011	Cheung L	Cross-sectional	United States	10.1158/2159-8290.CD-11-0039
PIK3R2	phosphoinositide-3-kinase regulatory subunit 2	19p13.11	2011	Cheung L	Cross-sectional	United States	10.1158/2159-8290.CD-11-0039
PLAU	plasminogen activator, urokinase	10q22.2	2011	Su C	Case-control	Taiwan	10.1002/jso.22035
PLAUR	plasminogen activator, urokinase receptor	19q13	2011	Su C	Case-control	Taiwan	10.1002/jso.22035
PMS2	PMS1 homolog 2, mismatch repair system compon	7p22.1	2019	Dong F	Cross-sectional	United States	10.1038/s41379-018-0125-4
PMS2	PMS1 homolog 2, mismatch repair system compon	7p22.1	2019	Gotoh, Osamu	Cohort	Japan	10.1038/s41467-019-12985-x
POLD1	DNA polymerase delta 1, catalytic subunit	19q13.3	2013	Palles C	Case-control	United Kingdom	10.1038/ng.2503
POLE	DNA polymerase epsilon, catalytic subunit	12q24.33	2019	Gotoh, Osamu	Cohort	Japan	10.1038/s41467-019-12985-x
POLE	DNA polymerase epsilon, catalytic subunit	12q24.33	2013	Zhao Y	Cross-sectional	United States	10.1073/pnas.1222577110
POLE	DNA polymerase epsilon, catalytic subunit	12q24.33	2019	Hájková N	Cross-sectional	Czech Republic	10.3892/ol.2018.9855
POLE	DNA polymerase epsilon, catalytic subunit	12q24.33	2020	O'Hara A	Case-control	United States	10.1016/j.cancergen.2019.10.005
POT1	protection of telomeres 1	7q31.33	2010	Prescott J	Case-control	United States	10.1002/cncr.25328
PPP2R1A	protein phosphatase 2 scaffold subunit Aalpha	19q13.41	2020	Casas-Arozamena C	Cohort	Spain	10.3390/jcm9020585
PPP2R1A	protein phosphatase 2 scaffold subunit Aalpha	19q13.41	2013	Zhao Y	Cross-sectional	United States	10.1073/pnas.1222577110
PPP2R1A	protein phosphatase 2 scaffold subunit Aalpha	19q13.41	2016	Stelloo E	Cross-sectional	Netherlands	10.1158/1078-0432.CCR-15-2878
PPP2R2A	protein phosphatase 2 regulatory subunit Balpha	8p21.2	2016	Kaveh F	Cross-sectional	Norway	10.1186/s12885-016-2899-4
CAVIN3	caveolae associated protein 3	11p15.4	2012	Tong S	Case-control	Korea	10.3109/07357907.2012.727054
PRKDC	protein kinase, DNA-activated, catalytic subunit	8q11.21	2015	Tamura R	Cross-sectional	England	10.1038/srep18657
PRKG1	protein kinase cGMP-dependent 1	10q11.23-q21	2015	Tamura R	Cross-sectional	England	10.1038/srep18657
PRLR	prolactin receptor	5p13.2	2014	De Vivo I	Case-control	United States	10.1007/s00439-013-1369-1
PRLR	prolactin receptor	5p13.2	2014	De Vivo I	Case-control	United States	10.1007/s00439-013-1369-1
PSCA	prostate stem cell antigen	8q24.3	2016	Kaveh F	Cross-sectional	Norway	10.1186/s12885-016-2899-4
PTEN	phosphatase and tensin homolog	10q23.31	2012	Ikeda Y	Cross-sectional	Japan	10.1097/IGC.0b013e31824c6ea6
PTEN	phosphatase and tensin homolog	10q23.31	2010	Janiec-Jankowska A	Cross-sectional	England	10.1111/igc.0b013e3181c83675
PTEN	phosphatase and tensin homolog	10q23.31	2013	Kandoth C	Cross-sectional	United States	10.1038/nature12113
PTEN	phosphatase and tensin homolog	10q23.31	2014	Stelloo E	Cross-sectional	Netherlands	10.1016/j.ygyno.2014.02.012
PTEN	phosphatase and tensin homolog	10q23.31	2019	Gotoh, Osamu	Cohort	Japan	10.1038/s41467-019-12985-x
PTEN	phosphatase and tensin homolog	10q23.31	2015	Bae H	? No informatio	Korea	10.1097/PGP.000000000000111
PTEN	phosphatase and tensin homolog	10q23.31	2010	Murayama-Hosokawa	Case-control	Japan	10.1038/onc.2009.474
PTEN	phosphatase and tensin homolog	10q23.31	2015	Sutton J	Case-control	United States	10.1016/j.ygyno.2015.05.024
PTEN	phosphatase and tensin homolog	10q23.31	2017	Russo M	Cross-sectional	United States	10.1016/j.humpath.2017.07.003

PTEN	phosphatase and tensin homolog	10q23.31	2018	Yang L	Cross-sectional	England	10.1097/IGC.000000000001227
PTEN	phosphatase and tensin homolog	10q23.31	2010	Ashton, Katie A	Case-control	Netherlands	10.1016/j.canep.2010.03.005
PTEN	phosphatase and tensin homolog	10q23.31	2012	Wang L	Case-control	United States	10.1007/s00432-011-1103-0
PTEN	phosphatase and tensin homolog	10q23.31	2018	Reiter J	Cross-sectional	United States	10.1126/science.aat7171
PTEN	phosphatase and tensin homolog	10q23.31	2018	Reiter J	Cross-sectional	United States	10.1126/science.aat7171
PTEN	phosphatase and tensin homolog	10q23.31	2011	Lacey Jr	Case-control	Poland	10.1016/j.ygyno.2010.10.016
PTEN	phosphatase and tensin homolog	10q23.31	2011	Cheung L	Cross-sectional	United States	10.1158/2159-8290.CD-11-0039
PTEN	phosphatase and tensin homolog	10q23.31	2019	Hájková N	Cross-sectional	Czech Republic	10.3892/ol.2018.9855
PTEN	phosphatase and tensin homolog	10q23.31	2016	Stelloo E	Cross-sectional	Netherlands	10.1158/1078-0432.CCR-15-2878
PTEN	phosphatase and tensin homolog	10q23.31	2011	Konopka B	Cross-sectional	United States	10.1016/j.humpath.2010.01.030
PTEN	phosphatase and tensin homolog	10q23.31	2015	Berg A	Case-control	Norway	10.18632/oncotarget.2675
PTEN	phosphatase and tensin homolog	10q23.31	2018	Matsuura M	Cross-sectional	Japan	10.1111/cas.13819
PTEN	phosphatase and tensin homolog	10q23.31	2015	Kafshdooz L	Case-control	Thailand	10.7314/apjcp.2015.16.11.4521
PTEN	phosphatase and tensin homolog	10q23.31	2016	Anglesio M	Cross-sectional	Canada	10.1093/jnci/djv428
PTEN	phosphatase and tensin homolog	10q23.31	2020	Kolin D	Cross-sectional	United States	10.1097/PAS.0000000000001375
PTEN	phosphatase and tensin homolog	10q23.31	2016	Chao A	Cross-sectional	United States	10.1016/j.ygyno.2016.07.114
PTEN	phosphatase and tensin homolog	10q23.31	2014	Maiques O	Cross-sectional	Spain	10.1111/his.12396
PTEN	phosphatase and tensin homolog	10q23.31	2016	Bolton, Katherine A	Case-control	England	10.1186/s13104-016-2086-3
PTGS2	prostaglandin-endoperoxide synthase 2	1q31.1	2015	Toricelli F	Cohort	United States	10.1007/s13277-015-3424-0
PTK2	protein tyrosine kinase 2	8q24.3	2016	Kaveh F	Cross-sectional	Norway	10.1186/s12885-016-2899-4
PTP4A3	protein tyrosine phosphatase 4A3	8q24.3	2016	Kaveh F	Cross-sectional	Norway	10.1186/s12885-016-2899-4
RAD50	RAD50 double strand break repair protein	5q31.1	2019	Gotoh, Osamu	Cohort	Japan	10.1038/s41467-019-12985-x
RAD51	RAD51 recombinase	15q15.1	2014	Michalska MM	Case-control	Poland	10.1007/s00404-014-3305-6
RAD51	RAD51 recombinase	15q15.1	2012	Romanowicz-Makows	Cross-sectional	Poland	10.1111/j.1447-0756.2011.01811.x
RAD51	RAD51 recombinase	15q15.1	2011	Krupa R	Case-control	Netherlands	10.1007/s11033-010-0214-z
RAD51C	RAD51 paralog C	17q22	2019	Gotoh, Osamu	Cohort	Japan	10.1038/s41467-019-12985-x
RAD51C	RAD51 paralog C	17q22	2019	De Jonge M	Cross-sectional	Netherlands	10.1158/1078-0432.CCR-18-1443
RAD51D	RAD51 paralog D	17q12	2019	De Jonge M	Cross-sectional	Netherlands	10.1158/1078-0432.CCR-18-1443
RB1	RB transcriptional corepressor 1	13q14.2	2019	Gotoh, Osamu	Cohort	Japan	10.1038/s41467-019-12985-x
RETN	resistin	19p13.2	2011	Hlavna M	Case-control	Czech Republic	10.4149/neo_2011_02_124
RETN	resistin	19p13.2	2019	Ozgor B	Cross-sectional	Turkey	10.1016/j.tjog.2018.11.030
RHEX	regulator of hemoglobinization and erythroid cell	1q32.1	2020	Huang C	Cross-sectional	Taiwan	10.3389/fonc.2019.01508
RNASET2	ribonuclease T2	6q27	2014	De Vivo I	Case-control	United States	10.1007/s00439-013-1369-1
RNLS	renalase, FAD dependent amine oxidase	10q23.31	2014	De Vivo I	Case-control	United States	10.1007/s00439-013-1369-1
SCGB2A1	secretoglobin family 2A member 1	11q12.3	2020	Huang C	Cross-sectional	Taiwan	10.3389/fonc.2019.01508
CXCL12	C-X-C motif chemokine ligand 12	10q11.21	2012	Cacina C	Case-control	Netherlands	10.1007/s11033-011-0852-9
SERPINE1	serpin family E member 1	7q22.1	2012	Gilbert-Estelles J	Case-control	United States	10.1016/j.thromres.2011.10.007
SERPINE1	serpin family E member 1	7q22.1	2017	Yildirim M	Case-control	United States	10.1007/s10528-017-9796-7
SH2B3	SH2B adaptor protein 3	12q24.12	2018	Kolin D	Cross-sectional	United States	10.1038/s41379-018-0049-z
SHBG	sex hormone binding globulin	17p13.1	2012	Lundin E	case-control	Sweden	10.1016/j.canep.2012.04.006
SIRT1	sirtuin 1	10q21.3	2019	Tekin L	Case-control	Turkey	10.1016/j.mgene.2018.10.009

SMAD4	SMAD family member 4	18q21.2	2012	Nikolic A	Cross-sectional	Serbia	10.1097/IGC.0b013e31823fabab
SMARCA4	SWI/SNF related, matrix associated, actin depende	19p13.2	2018	Kolin D	Cross-sectional	United States	10.1038/s41379-018-0049-z
SMARCA4	SWI/SNF related, matrix associated, actin depende	19p13.2	2020	Kolin D	Cross-sectional	United States	10.1097/PAS.0000000000001375
SMYD4	SET and MYND domain containing 4	17p13.3	2017	Wang W	Case-control	China	10.1177/1933719116657191
SNAI1	snail family transcriptional repressor 1	20q13.13	2016	Yang L	Case-control	China	10.1371/journal.pone.0155270
SNX6	sorting nexin 6	14q13.1	2017	Chang Y	Cross-sectional	Taiwan	10.3892/ijo.2017.3919
SOX17	SRY-box transcription factor 17	8q11.23	2019	Buchynska L	Cross-sectional	Ukraine	10.32471/exp-oncology.2312-8852.vol-41-n
SOX17	SRY-box transcription factor 17	8q11.23	2020	Huang C	Cross-sectional	Taiwan	10.3389/fonc.2019.01508
SPOP	speckle type BTB/POZ protein	17q21.33	2013	Zhao Y	Cross-sectional	United States	10.1073/pnas.1222577110
SREBF1	sterol regulatory element binding transcription fact	17p11.2	2014	Qiu C	Case-control	China	10.1371/journal.pone.0090491
STX18	syntaxin 18	4p16.3-p16.2	2020	Huang C	Cross-sectional	Taiwan	10.3389/fonc.2019.01508
SULT1A1	sulfotransferase family 1A member 1	16p11.2	2011	O'Mara T	Case-control	Australia	10.1375/twin.14.4.328
SULT1E1	sulfotransferase family 1E member 1	4q13.3	2011	O'Mara T	Case-control	Australia	10.1375/twin.14.4.328
SYNE1	spectrin repeat containing nuclear envelope protein	6q25.2	2015	O'Mara T	Case-control	International	10.1530/ERC-15-0319
SYNM	synemin	15q26.3	2014	De Vivo I	Case-control	United States	10.1007/s00439-013-1369-1
TAF1	TATA-box binding protein associated factor 1	Xq13.1	2013	Zhao Y	Cross-sectional	United States	10.1073/pnas.1222577110
TBP	TATA-box binding protein	6q27	2012	Kowalewska M	Case-control	United States	10.1016/j.clinbiochem.2012.01.001
TERF1	telomeric repeat binding factor 1	8q21.11	2010	Prescott J	Case-control	United States	10.1002/cncr.25328
TERF2	telomeric repeat binding factor 2	16q22.1	2010	Prescott J	Case-control	United States	10.1002/cncr.25328
TERT	telomerase reverse transcriptase	5p15.33	2010	Prescott J	Case-control	United States	10.1002/cncr.25328
TERT	telomerase reverse transcriptase	5p15.33	2017	Ayhan A	Cross-sectional	United States	10.1038/modpathol.2016.160
TERT	telomerase reverse transcriptase	5p15.33	2018	Kolin D	Cross-sectional	United States	10.1038/s41379-018-0049-z
TERT	telomerase reverse transcriptase	5p15.33	2015	Carvajal-Carmona, Lu	Cross-sectional	International	10.1007/s00439-014-1515-4
TFF3	trefoil factor 3	21q22.3	2017	Pandey V	Case-control	China	10.18632/oncotarget.20461
TGFB1	transforming growth factor beta 1	19q13.2	2016	Yang L	Case-control	China	10.1371/journal.pone.0155270
TGFBR1	transforming growth factor beta receptor 1	9q22.33	2016	Yang L	Case-control	China	10.1371/journal.pone.0155270
TGFBR2	transforming growth factor beta receptor 2	3p24.1	2016	Nagasawa T	Cross-sectional	Japan	10.1097/IGC.0000000000000824
TICRR	TOPBP1 interacting checkpoint and replication reg	15q26.1	2014	Forma E	Cross-sectional	Poland	10.1007/s12253-013-9737-7
TJP1	tight junction protein 1	15q13.1	2016	Ramirez-Garcia S	Cross-sectional	Mexico	10.1016/j.circir.2015.06.033
TLN1	talin 1	9p13.3	2017	Chang Y	Cross-sectional	Taiwan	10.3892/ijo.2017.3919
TLR2	toll like receptor 2	4q31.3	2010	Ashton, Katie A	Case-control	England	10.1186/1471-2407-10-382
TLR4	toll like receptor 4	9q33.1	2010	Ashton, Katie A	Case-control	England	10.1186/1471-2407-10-382
TLR9	toll like receptor 9	3p21.2	2010	Ashton, Katie A	Case-control	England	10.1186/1471-2407-10-382
TNFAIP8	TNF alpha induced protein 8	5q23.1	2019	Liu T	Case-control	China	10.1186/s12935-019-0827-9
TNK2	tyrosine kinase non receptor 2	3q29	2014	Rudd ML	Cohort	England	10.1186/1471-2407-14-884
TNKS2	tankyrase 2	10q23.32	2010	Prescott J	Case-control	United States	10.1002/cncr.25328
TP53	tumor protein p53	17p13.1	2014	Stelloo E	Cross-sectional	Netherlands	10.1016/j.ygyno.2014.02.012
TP53	tumor protein p53	17p13.1	2019	Gotoh, Osamu	Cohort	Japan	10.1038/s41467-019-12985-x
TP53	tumor protein p53	17p13.1	2014	Kafshdooz T	Cross-sectional	Thailand	10.7314/apjcp.2014.15.22.9603
TP53	tumor protein p53	17p13.1	2018	Yang L	Cross-sectional	England	10.1097/IGC.0000000000001227
TP53	tumor protein p53	17p13.1	2019	De Jonge M	Cross-sectional	Netherlands	10.1158/1078-0432.CCR-18-1443

TP53	tumor protein p53	17p13.1	2020	Casas-Arozamena C	Cohort	Spain	10.3390/jcm9020585
TP53	tumor protein p53	17p13.1	2019	Hájková N	Cross-sectional	Czech Republic	10.3892/ol.2018.9855
TP53	tumor protein p53	17p13.1	2019	Buchynska L	Cross-sectional	Ukraine	10.32471/exp-oncology.2312-8852.vol-41-n
TP53	tumor protein p53	17p13.1	2016	Menghi F	Cross-sectional	United States	10.1073/pnas.1520010113
TP53	tumor protein p53	17p13.1	2020	O'Hara A	Case-control	United States	10.1016/j.cancer.2019.10.005
TP53	tumor protein p53	17p13.1	2015	Suga Y	Cross-sectional	Japan	10.1111/pin.12274
TP53	tumor protein p53	17p13.1	2015	Wong S	Cross-sectional	Australia	10.1038/bjc.2015.80
TSC1	TSC complex subunit 1	9q34	2017	Chang Y	Cross-sectional	Taiwan	10.3892/ijo.2017.3919
TTC23	tetratricopeptide repeat domain 23	15q26.3	2014	De Vivo I	Case-control	United States	10.1007/s00439-013-1369-1
TWIST1	twist family bHLH transcription factor 1	7p21.1	2016	Yang L	Case-control	China	10.1371/journal.pone.0155270
UBC	ubiquitin C	12q24.3	2012	Kowalewska M	Case-control	United States	10.1016/j.clinbiochem.2012.01.001
UGT1A1	UDP glucuronosyltransferase family 1 member A1	2q37.1	2013	Hirasawa A	Cross-sectional	Japan	10.1038/jhg.2013.105
UGT1A1	UDP glucuronosyltransferase family 1 member A1	2q37.1	2012	Lundin E	case-control	Sweden	10.1016/j.canep.2012.04.006
UGT1A8	UDP glucuronosyltransferase family 1 member A8	2q37.1	2017	Chang Y	Cross-sectional	Taiwan	10.3892/ijo.2017.3919
UGT2B4	UDP glucuronosyltransferase family 2 member B4	4q13.3	2010	Low Y	Case-control	Sweden	10.1371/journal.pgen.1001012
URI1	URI1 prefoldin like chaperone	19q12	2013	Davis SJ	Cross-sectional	United States	10.1158/1078-0432.CCR-12-3433
VDR	vitamin D receptor	12q13.11	2013	Liu J	Case-control	United States	10.1093/annonc/mds509
VEGFA	vascular endothelial growth factor A	6p21.1	2015	Stefansson I	Cohort	Norway	10.18632/oncotarget.3521
VGLL4	vestigial like family member 4	3p25.3-p25.2	2015	Tamura R	Cross-sectional	England	10.1038/srep18657
VPS13C	vacuolar protein sorting 13 homolog C	15q22.2	2017	Chang Y	Cross-sectional	Taiwan	10.3892/ijo.2017.3919
WWOX	WW domain containing oxidoreductase	16q23.1-q23.2	2015	Pluciennik E	Cross-sectional	Poland	10.3892/ijo.2015.2964
XIST	X inactive specific transcript	Xq13.2	2014	Zhang B	Cross-sectional	England	10.1186/1471-2164-15-868
XPA	XPA, DNA damage recognition and repair factor	9q22.33	2011	Doherty J	Case-control	United States	10.1158/1055-9965.EPI-11-0119
XPA	XPA, DNA damage recognition and repair factor	9q22.33	2016	Chen L	Case-control	China	10.2147/OTT.S110976
XPC	XPC complex subunit, DNA damage recognition a	3p25.1	2011	Doherty J	Case-control	United States	10.1158/1055-9965.EPI-11-0119
XRCC1	X-ray repair cross complementing 1	19q13.31	2013	Hosono S	Case-control	Japan	10.1097/IGC.0b013e3182a80a7e
XRCC1	X-ray repair cross complementing 1	19q13.31	2012	Sobczuk A	Case-control	Netherlands	10.1007/s12253-012-9537-5
XRCC1	X-ray repair cross complementing 1	19q13.31	2018	Smolarz B	Case-control	Poland	10.21873/anticanres.12846
XRCC1	X-ray repair cross complementing 1	19q13.31	2016	Chen L	Case-control	China	10.2147/OTT.S110976
XRCC1	X-ray repair cross complementing 1	19q13.31	2015	Wang L	Case-control	China	10.1016/j.gene.2014.10.041
XRCC2	X-ray repair cross complementing 2	7q36.1	2018	Smolarz B	Case-control	Poland	10.21873/anticanres.12846
XRCC2	X-ray repair cross complementing 2	7q36.1	2015	Michalska MM	Case-control	Poland	10.5114/pjp.2015.51155
XRCC2	X-ray repair cross complementing 2	7q36.1	2012	Romanowicz-Makows	Cross-sectional	Poland	10.1111/j.1447-0756.2011.01811.x
XRCC3	X-ray repair cross complementing 3	14q32.33	2018	Smolarz B	Case-control	Poland	10.21873/anticanres.12846
XRCC3	X-ray repair cross complementing 3	14q32.33	2012	Romanowicz-Makows	Cross-sectional	Poland	10.1111/j.1447-0756.2011.01811.x
YIPF3	Yip1 domain family member 3	6p21.1	2013	Zhao Y	Cross-sectional	United States	10.1073/pnas.1222577110
ZBTB7B	zinc finger and BTB domain containing 7B	1q21.3	2018	Reiter J	Cross-sectional	United States	10.1126/science.aat7171
ZFHX3	zinc finger homeobox 3	16q22.2-q22.3	2015	Walker CJ	Cohort	United States	10.1093/jnci/djv249
ZNF217	zinc finger protein 217	20q13.2	2018	Kolin D	Cross-sectional	United States	10.1038/s41379-018-0049-z
ZNF605	zinc finger protein 605	12q24.33	2017	Chang Y	Cross-sectional	Taiwan	10.3892/ijo.2017.3919
ZSCAN29	zinc finger and SCAN domain containing 29	15q15.3	2017	Chang Y	Cross-sectional	Taiwan	10.3892/ijo.2017.3919

Microsatellite instability		2010	Bilbao B	Cross-sectional	United States	10.1016/j.ijrobp.2009.09.035
Microsatellite instability		2012	Cote, Michele L	Cross-sectional	United States	10.1097/PGP.0b013e318224329e
Microsatellite instability		2010	Alves M	Case-control	Portugal	10.3892/or-00000664
Microsatellite instability		2011	Steinbakk A	Cross-sectional	Norway	10.1007/s13402-011-0040-x
Microsatellite instability		2012	Zheng Y	Cross-sectional	China	10.5301/JBM.2012.9311