



CCCPv2 Gene List 586 genes, all exons.

ABL1	BCL2L2	CD58	CYLD	ERCC3	FGF6
ABL2	BCL6	CD70	CYSLTR2	ERCC4	FGFR1
ACTB	BCL7A	CD74	DAXX	ERCC5	FGFR2
ACVR1B	BCOR	CD79A	DCUN1D1	ERG	FGFR3
AKT1	BCORL1	CD79B	DDR2	ERRFI1	FGFR4
AKT2	BCR	CDC73	DDX3X	ESR1	FH
AKT3	BIRC3	CDH1	DDX41	ETNK1	FLCN
ALK	BLM	CDK12	DICER1	ETS1	FLT1
ALOX12B	BMPR1A	CDK4	DIS3	ETV1	FLT3
AMER1	BRAF	CDK6	DNM2	ETV4	FLT4
APC	BRCA1	CDK8	DNMT1	ETV5	FOXA1
AR	BRCA2	CDKN1A	DNMT3A	ETV6	FOXL2
ARAF	BRCC3	CDKN1B	DNMT3B	EWSR1	FOXO1
ARFRP1	BRD3	CDKN2A	DOT1L	EXT1	FOXP1
ARID1A	BRD4	CDKN2B	DTX1	EZH2	FRS2
ARID1B	BRIP1	CDKN2C	DUSP2	FAM175A	FUBP1
ARID2	BTG1	CEBPA	E2F3	FAM46C	FUS
ARID5B	BTG2	CHD2	EBF1	FAM5C	FYN
ASXL1	BTK	CHD4	EED	FANCA	FZR1
ASXL2	BUB1B	CHEK1	EGFL7	FANCC	GABRA6
ATM	C11ORF30	CHEK2	EGFR	FANCD2	GATA1
ATR	CALR	CIC	EGR2	FANCE	GATA2
ATRX	CARD11	CIITA	EIF1AX	FANCF	GATA3
AURKA	CASP8	COL1A1	ELANE	FANCG	GATA4
AURKB	CBFB	CREBBP	EP300	FANCL	GATA6
AXIN1	CBL	CRKL	EPCAM	FANCM	GEN1
AXIN2	CBLB	CRLF2	EPHA3	FAS	GID4
AXL	CBLC	CSF1R	EPHA5	FAT1	GLI1
B2M	CCND1	CSF3R	EPHA7	FAT3	GNA11
BAP1	CCND2	CSNK1A1	EPHB1	FBXO11	GNA13
BARD1	CCND3	CTCF	EPHB4	FBXW7	GNAI2
BBC3	CCNE1	CTLA4	EPHB6	FGF10	GNAQ
BCL10	CD19	CTNNA1	ERBB2	FGF14	GNAS
BCL11B	CD274	CTNNB1	ERBB3	FGF19	GNB1
BCL2	CD276	CUL3	ERBB4	FGF23	GPC3
BCL2L1	CD28	CUX1	ERCC1	FGF3	GPR124
BCL2L11	CD40	CXCR4	ERCC2	FGF4	GREM1



GRIN2A	INPP4B	LZTR1	MYD88	PAX7	PRDM1
GRM3	INSR	MAGI2	MYH9	PAX8	PREX2
GSK3B	IRF2	MALT1	MYOD1	PBRM1	PRKACA
H3F3A	IRF4	MAML2	NBN	PDCD1	PRKAR1A
H3F3C	IRF8	MAP2K1	NCOA2	PDCD1LG2	PRKCI
HDAC4	IRS1	MAP2K2	NCOR1	PDGFB	PRKDC
HGF	IRS2	MAP2K4	NF1	PDGFRA	PRPF40B
HIF1A	ITK	MAP3K1	NF2	PDGFRB	PRPF8
HIST1H1C	ITPKB	MAP3K13	NFE2	PDK1	PRSS8
HIST1H1E	JAK1	MAP3K14	NFE2L2	PDPK1	PTCH1
HIST1H2BD	JAK2	MAP3K7	NFKB2	PHF6	PTEN
HIST1H3B	JAK3	MAPK1	NFKBIA	PHOX2B	PTPN11
HIST1H3C	JAZF1	MAST1	NFKBIE	PIGA	PTPRD
HLA-A	JUN	MAX	NKX2-1	PIK3C2B	PTPRS
HLA-B	KAT6A	MBD4	NKX3-1	PIK3C2G	PTPRT
HLA-DRB1	KDM5A	MCL1	NOTCH1	PIK3C3	QKI
HMGA2	KDM5C	MDC1	NOTCH2	PIK3CA	RAB35
HNF1A	KDM6A	MDM2	NOTCH3	PIK3CB	RAC1
HNRNPK	KDR	MDM4	NOTCH4	PIK3CD	RAD21
HOXB13	KEAP1	MECOM	NPM1	PIK3CG	RAD50
HRAS	KEL	MED12	NRAS	PIK3R1	RAD51
HSD3B1	KIF1B	MEF2B	NRG1	PIK3R2	RAD51B
HSP90AA1	KIF5B	MEN1	NSD1	PIK3R3	RAD51C
ICOSLG	KIT	MET	NT5C2	PIM1	RAD51D
ID3	KLF2	MITF	NTHL1	PLAG1	RAD52
IDH1	KLF4	MLH1	NTRK1	PLCB4	RAD54L
IDH2	KLHL6	MLH3	NTRK2	PLCG1	RAF1
IFNGR1	KMT2A	MPL	NTRK3	PLCG2	RANBP2
IGF1	KMT2B	MRE11A	NUP214	PLK2	RARA
IGF1R	KMT2C	MSH2	NUP93	PMAIP1	RASA1
IGF2	KMT2D	MSH3	NUTM1	PML	RASA2
IKBKE	KRAS	MSH6	P2RY8	PMS1	RB1
IKZF1	LAG3	MST1R	PAK1	PMS2	RBM10
IKZF2	LATS1	MTAP	PAK3	PNRC1	RECQL
IKZF3	LATS2	MTOR	PAK7	POLD1	RECQL4
IL10	LIFR	MUTYH	PALB2	POLE	REL
IL2RG	LMO1	MYB	PARK2	POT1	RELA
IL7R	LRP1B	MYC	PARP1	PPARG	RET
INHBA	LYL1	MYCL1	PAX3	PPM1D	RFWD2
INPP4A	LYN	MYCN	PAX5	PPP2R1A	RHOA



RICTOR	SMARCD1	TET2	ZNF217
RINT1	SMARCE1	TFE3	ZNF703
RIT1	SMC1A	TFEB	ZNF750
RNF43	SMC3	TGFBR1	ZRSR2
ROS1	SMO	TGFBR2	
RPS15	SNCAIP	TMEM127	
RPS20	SOCS1	TMEM30A	
RPS6KA4	SOS1	TMPRSS2	
RPS6KB2	SOX10	TNFAIP3	
RPTOR	SOX17	TNFRSF14	
RRAGC	SOX2	TOP1	
RSPO2	SOX9	TOP2A	
RSPO3	SPEN	TP53	
RUNX1	SPOP	TP63	
RUNX1T1	SPTA1	TPMT	
RYBP	SRC	TRAF2	
SAMD9	SRP72	TRAF3	
SAMD9L	SRSF2	TRAF7	
SBDS	SS18	TSC1	
SDHA	STAG2	TSC2	
SDHAF2	STAT3	TSHR	
SDHB	STAT4	TYK2	
SDHC	STAT5A	U2AF1	
SDHD	STAT5B	U2AF2	
SETBP1	STAT6	USP6	
SETD2	STK11	VAV1	
SF1	STK40	VEGFA	
SF3A1	SUFU	VHL	
SF3B1	SUZ12	VTCN1	
SGK1	SYK	WHSC1	
SH2B3	TAF1	WISP3	
SH2D1A	TBL1XR1	WRN	
SHQ1	TBX3	WT1	
SLIT2	TCEB1	XPC	
SLX4	TCF12	XPO1	
SMAD2	TCF3	XRCC2	
SMAD3	TCF7L2	YAP1	
SMAD4	TERC	YWHAE	
SMARCA4	TERT	ZBTB2	
SMARCB1	TET1	ZMYM3	



Genes with all exons and selected introns.

ALK (Introns 15-22); BRAF (introns 5-11); CD74 (intron 2-7), EGFR (introns 7; 24-26), ETV6 (introns 3-6); FGFR1 (introns 3-5; 16-17); FGFR2 (introns 1-3;16-17), FGFR3 (introns 15-17), MET (introns 12-16), NRG1(introns 3,5), NTRK1 (Introns3;7-13); NTRK2 (introns 11,12,15); NTRK3 (introns 6; 11-14); PAX8 (introns 6-11); RAF1 (Introns 6-10); RET (introns 7-13), ROS1 (introns 30-37); RSPO3 (introns 1-3), TFE3 (introns 1-6); TFEB (intron 1).

Whole gene (exons and introns): BRCA1; BRCA2.

Probes for investigational use:

Viral probes:

BK virus; EBV types 1 and 2; HHV8; HTLV1 and HTLVII; HPV; HPyV7; MCPyV; JC virus;

SNV probes.

MSI probes. (not currently used for MSI testing, but reserved for interlaboratory comparisons)

Probes to aid with copy number analysis:

xGen® CNV Backbone Panel—Tech Access 96rxn Cat#1080564/ 16rxn Cat# 1080563

Genes for reporting of germline variants when requested:

APC; ATM; BAP1; BARD1; BRCA1; BRCA2; BRIP1; CDH1; CDK4; CDKN2A; CHEK2; EGFR; HRAS; KIT; MAX; MET; MLH1; MSH2; MSH6; NF1; PALB2; PDGFRA; PMS2; POLD1; POLE; PTEN; RAD51C; RAD51D; RB1; SMAD4; STK11; TP53; SMARCE1; ALK; AXIN2; BLM; BMPR1A; CDC73; CDKN1B; CEBPA; CTNNA1; DICER1; EPCAM; FH; FLCN; GATA2; GPC3; GREM1; HOXB13; MAX; MEN1; MTF; MSH3; MUTYH; NBN; NF2; NTHL1; PHOX2B; POT1; PRKAR1A; PTCH1; RAD50; RECQL4; RET; RUNX1; SDHA; SDHAF2; SDHB; SDHC; SDHD; SMARCA4; SMARCB1; SUFU; TERT; TMEM127; TSC1; TSC2; VHL1; WT1

Additional genes from the ACMG secondary findings version 3.2 for reporting of secondary findings on this panel:

BMPR1A; HNF1A; SMAD3; TGFBR1; TGFBR2