

# OncoPrint Comprehensive Assay Plus gene list

Ion Torrent™ OncoPrint™ Comprehensive Assay Plus (517 DNA and RNA genes plus HRD, TMB, and MSI)

A1CF	BRCA2**,**	CUL4A*	FANCG*	IDH2	MED12	OR2T3	POT1*	ROS1	TAP1*
ABCB1	BRINP3*	CUL4B*	FANCI*	IGF1R	MEF2B*	OR2T33	PPARG	RPA1*	TAP2*
ABL1	BRIP1*	CYLD*	FANCL*	IKBKB	MEN1*	OR2T4	PPFIA2	RPL10	TAPBP
ABL2	BTK	CYP2C9*	FANCM*	IL6ST	MET	OR2W3*	PPM1D*	RPL22*	TBX3*
ABRAXAS1*	C6	CYP2D6*	FAS*	IL7R	MGA*	OR4A15	PPP2R1A	RPL5*	TCF7L2*
ACSM2B	C8A	CYSLTR2	FAT1*	INPP4B*	MITF	OR4C15	PPP2R2A*	RPS6KB1	TERT
ACVR1	C8B	DAXX*	FBXW7*	IRF4	MLH1*	OR4C6*	PPP6C	RPTN	TET2*
ACVR1B*	CACNA1D	DCAF4L2*	FGF19*	IRS4	MLH3*	OR4M1	PRDM1*	RPTOR	TFE3
ACVR2A*	CALR*	DCDC1	FGF23*	JAK1*	MPL	OR4M2	PRDM9*	RSPO2	TFEB
ADAM18	CANX	DDR1	FGF3*	JAK2*	MRE11*	OR5D18	PRKACA	RSPO3	TGFBR1
ADAMTS12*	CARD11	DDR2	FGF4*	JAK3*	MSH2*	OR5F1	PRKACB	RUNDC3B	TGFBR2*
ADAMTS2*	CASP8*	DDX3X*	FGF7	KCND2	MSH3*	OR5L1*	PRKAR1A*	RUNX1*	TMEM132D*
AKT1	CASR	DGCR8	FGF9*	KCNH7	MSH6*	OR5L2*	PSMB10*	RUNX1T1*	TNFAIP3*
AKT2	CBFB*	DICER1*	FGFR1	KCNJ5	MTAP*	OR6F1*	PSMB8*	SDHA*	TNFRSF14*
AKT3	CBL	DNMT3A*	FGFR2	KDM5C*	MTOR	OR8H2	PSMB9*	SDHB*	TOP1
ALK	CCND1*	DOCK3*	FGFR3	KDM6A*	MTUS2*	OR8I2	PTCH1*	SDHC*	TOP2A
AMER1*	CCND2*	DPYD*	FGFR4	KDR	MUTYH*	OR8U1	P TEN*	SDHD*	TP53*
ANO4	CCND3	DROSHA	FLT3	KEAP1*	MYB	ORC4	PTPN11	SETBP1	TP63*
APC*	CCNE1	DSC1*	FLT4	KEL	MYBL1	PAK5	PTPRD	SETD2*	TPMT
AR	CD163	DSC3*	FOXA1	KIR3DL1	MYC	PALB2*	PTPRT*	SF3B1	TPP2*
ARAF	CD274*	E2F1	FOXO1	KIT	MYCL	PARP1*	PXDNL	SH3RF2	TPTE
ARHGAP35*	CD276*	EGFR	FOXO2	KLF4	MYCN	PARP2*	RAC1	SIX1	TRHDE
ARID1A*	CD79B	EIF1AX*	FUBP1*	KLF5	MYD88	PARP3*	RAD50*	SIX2	TRIM48
ARID1B*	CDC73*	ELF3*	FYN	KLHL13*	MYO1D	PARP4*	RAD51*	SLC15A2	TRIM51
ARID2*	CDH1*	EMSY	GALNT17	KMT2A*	NBN*	PAX5	RAD51B*	SLC8A1	TRRAP
ARID5B*	CDH10*	ENO1*	GATA2	KMT2B*	NCOR1*	PBRM1*	RAD51C*	SLCO1B3	TSC1*
ARMC4	CDK12*	EP300*	GATA3*	KMT2C*	NF1*	PCBP1*	RAD51D*	SLX4*	TSC2*
ASXL1*	CDK4*	EPAS1	GLI1	KMT2D*	NF2*	PCDH17	RAD52*	SMAD2*	TSHR
ASXL2*	CDK6	EPCAM*	GLI3	KNSTRN	NFE2L2	PDCD1*	RAD54L*	SMAD4*	U2AF1
ATM*	CDKN1A*	EPHA2*	GNA11	KRAS*	NLRC5	PDCD1LG2*	RAF1	SMARCA4*	UGT1A1*
ATP1A1	CDKN1B*	ERAP1*	GNA13*	KRTAP21-1*	NOL4	PDE1A	RARA	SMARCB1*	USP8
ATR*	CDKN2A*	ERAP2*	GNAQ	KRTAP6-2*	NOTCH1*	PDE1C	RASA1*	SMC1A	USP9X*
ATRX*	CDKN2B*	ERBB2	GNAS	LARP4B*	NOTCH2*	PDGFRA	RASA2*	SMO	VHL*
AURKA	CDKN2C*	ERBB3	GPR158	LATS1*	NOTCH3*	PDGFRB	RB1*	SNCAIP	WAS
AURKB	CHD4	ERBB4	GPS2*	LATS2*	NOTCH4*	PDIA3*	RBM10*	SOCS1*	WT1*
AURKC	CHEK1*	ERCC2*	GRID2	LRRC7	NRAS*	PGD*	RBP3	SOS1	XPO1
AXIN1*	CHEK2*	ERCC4*	H1-4	MAGOH*	NRG	PHF6*	RECQL4*	SOX2	XRCC2*
AXIN2*	CIC*	ERCC5*	H2BC5	MAP2K1	NRXN1	PIK3C2B	REG1A	SOX9*	XRCC3*
AXL	CIITA*	ERG	H3-3A	MAP2K2	NSD2	PIK3CA	REG1B	SPEN*	YAP1
B2M*	CNTN6	ERF1*	H3-3B*	MAP2K4*	NT5C2	PIK3CB	REG3A	SPOD	YES1
BAP1*	CNTNAP4	ESR1	H3C2	MAP2K7*	NTRK1	PIK3CD	REG3G	SRC	ZBTB20*
BARD1*	CNTNAP5	ETV1	HCN1*	MAP3K1*	NTRK2	PIK3CG	RELA	SRSF2	ZFH3*
BCL2*	COL11A1	ETV4	HDAC2*	MAP3K4*	NTRK3	PIK3R1*	RET	STAG2*	ZIM3
BCL2L12	CREBBP*	ETV5	HDAC9*	MAP3K8	NUP93	PIK3R2	RGS7	STAT1*	ZMYM3*
BCL6	CSF1R	ETV6*	HIF1A	MAPK1	NUTM1	PIM1	RHEB*	STAT3	ZNF217
BCOR*	CSMD3*	EZH2	HLA-A*	MAPK8*	NYAP2	PLCG1	RHOA	STAT5B	ZNF429
BCR	CTCF*	FAM135B	HLA-B*	MARCO	OR10G8*	PLXDC2	RICTOR	STAT6	ZNF479
BLM*	CTLA4*	FANCA*	HLA-C	MAX*	OR2G6*	PMS1*	RIT1	STK11*	ZNF536
BMP5	CTNBN1	FANCC*	HNF1A*	MCL1*	OR2L13*	PMS2*	RNASEH2A*	SUFU*	ZRSR2*
BMPR2*	CTNND2	FANCD2*	HRAS*	MDM2	OR2L2	POLD1*	RNASEH2B*	SYT10	
BRAF	CUL1	FANCE*	ID3*	MDM4	OR2L8	POLE*	RNASEH2C*	SYT16	
BRCA1**,**	CUL3*	FANCF*	IDH1	MECOM	OR2M3*	POM121L12*	RNF43*	TAF1	

\* Full-length gene.

\*\* Large rearrangements.

Note: HRD: homologous recombination deficiency; TMB: tumor mutational burden; MSI: microsatellite instability.

Learn more at [thermofisher.com/oncoPrint-ocaplus](https://thermofisher.com/oncoPrint-ocaplus)

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