

**Targeted genes**

ABL1	CCNE1	EGFR	FH	JAK2	MYCL	PRKAR1A	SOX2
AKT1	CD74*	EIF1AX	FLCN	JAK3	MYCN	PRKCA	SOX10
AKT2	CD274	ELOC	FLT3	KDM6A	MYD88	PTCH1	SPOP
AKT3	CDH1	EP300	FOS*	KDR	NF1	PTEN	SRC
ALK	CDK12	EPHA2	FOXA1	KEAP1	NF2	PTPN11	SRSF2
APC	CDK4	EPHA3	FOXL2	KIT	NFE2L2	RAC1	STAG2
AR	CDK6	ERBB2	FOXO1	KLF4	NKX2-1	RAF1	STK11
ARAF	CDKN1B	ERBB3	FOXR2	KRAS	NOTCH1	RB1	SUFU
ARID1A	CDKN2A	ERBB4	FUBP1	LRP1B	NOTCH3	RELA	SUZ12
ATM	CDKN2B	ERCC1	FUS*	LZTR1	NRAS	RET	TACC3
ATR	CDKN2C	ERCC2	GATA3	MAP2K1	NTRK1	RHEB	TERT
ATRX	CHEK1	ERRF1	GLI1	MAP2K2	NTRK2	RHOA	TFE3*
AURKA	CHEK2	ESR1	GNA11	MAP3K8*	NTRK3	RIT1	TFEB
AXIN1	CIC	ETV6*	GNAQ	MCL1	PALB2	RNF43	TP53
BAP1	CREBBP	EWSR1	GNAS	MDM2	PCBP1	ROS1	TP63
BCL2	CTNNB1	EZH2	H3-3A	MDM4	PDGFRA	SDHB	TRAF7
BCOR	CUL3	FANCA	H3-3B	MED12	PDGFRB	SDHC	TSC1
BCR	CXCR4	FANCF	H3C2	MEN1	PHOX2B	SDHD	TSC2
BRAF	CYLD	FANCG	HGF	MET	PIK3CA	SETBP1	U2AF1
BRCA1	CYSLTR2	FBXW7	HNF1A	MLH1	PIK3R1	SETD2	VEGFA
BRCA2	DDR2	FGF3	HOXB13	MPL	PLEKHS1	SF3B1	VHL
BRD4	DDX3X	FGF4	HRAS	MSH2	PMS2	SMAD4	WT1
BTK	DICER1	FGF19	IDH1	MSH6	POLD1	SMARCA4	YAP1
CASP8	DNMT3A	FGFR1	IDH2	MTOR	POLE	SMARCB1	ZMYM3
CCND1	DPH3	FGFR2	IGF1R	MYB	POLR2A	SMARCE1	
CCND2	DROSHA	FGFR3	IKBKE	MYBL1	POT1	SMO	
CCND3	EED	FGFR4	IKZF3	MYC	PPP2R1A		

**\* Fusion Variants Only**

**Genes with intronic coverage for fusion detection**

ALK	EGFR	FGFR1	FOS	MAP3K8	NTRK2	RET	TFEB
BRAF	ETV6	FGFR2	FUS	MYB	RAF1	ROS1	YAP1
CD74	EWSR1	FGFR3	MET	NTRK1	RELA	TFE3	