

# TruSight Oncology 500 (DNA 523 & RNA 55 Genes)

Comprehensive DNA and RNA analysis to uncover what drives each tumor

## 523 Genes by DNA Sequencing: • SNVs • Indels • CNVs

(Content shaded in pink is analyzed for CNV detection.)

ABL1	CALR	DNAJB1	FGF14	HIST1H3A	KEAP1	MYCL1	PIK3CD	RHOA	SUFU
ABL2	CARD11	DNMT1	FGF19	HIST1H3B	KEL	MYCN	PIK3CG	RICTOR	SUZ12
ACVR1	CASP8	DNMT3A	FGF2	HIST1H3C	KIF5B	MYD88	PIK3R1	RIT1	SYK
ACVR1B	CBFB	DNMT3B	FGF23	HIST1H3D	KIT	MYOD1	PIK3R2	RNF43	TAF1
AKT1	CBL	DOT1L	FGF3	HIST1H3E	KLF4	NAB2	PIK3R3	ROS1	TBX3
AKT2	CCND1	E2F3	FGF4	HIST1H3F	KLHL6	NBN	PIM1	RPS6KA4	TCEB1
AKT3	CCND2	EED	FGF5	HIST1H3G	KMT2B	NCOA3	PLCG2	RPS6KB1	TCF3
ALK	CCND3	EGFL7	FGF6	HIST1H3H	KMT2C	NCOR1	PLK2	RPS6KB2	TCF7L2
ALOX12B	CCNE1	EGFR	FGF7	HIST1H3I	KMT2D	NEGR1	PMAIP1	RPTOR	TERC
ANKRD11	CD274	EIF1AX	FGF8	HIST1H3J	KRAS	NF1	PMS1	RUNX1	TERT
ANKRD26	CD276	EIF4A2	FGF9	HIST2H3A	LAMP1	NF2	PMS2	RUNX1T1	TET1
APC	CD74	EIF4E	FGFR1	HIST2H3C	LATS1	NFE2L2	PNRC1	RYBP	TET2
AR	CD79A	EML4	FGFR2	HIST2H3D	LATS2	NFKBIA	POLD1	SDHA	TFE3
ARAF	CD79B	EP300	FGFR3	HIST3H3	LMO1	NKX2-1	POLE	SDHAF2	TFRC
ARFRP1	CDC73	EPCAM	FGFR4	HLA-A	LRP1B	NKX3-1	PPARG	SDHB	TGFBR1
ARID1A	CDH1	EPHA3	FH	HLA-B	LYN	NOTCH1	PPM1D	SDHC	TGFBR2
ARID1B	CDK12	EPHA5	FLCN	HLA-C	LZTR1	NOTCH2	PPP2R1A	SDHD	TMEM127
ARID2	CDK4	EPHA7	FLI1	HNF1A	MAGI2	NOTCH3	PPP2R2A	SETBP1	TMPRSS2
ARID5B	CDK6	EPHB1	FLT1	HNRNPK	MALT1	NOTCH4	PPP6C	SETD2	TNFAIP3
ASXL1	CDK8	ERBB2	FLT3	HOXB13	MAP2K1	NPM1	PRDM1	SF3B1	TNFRSF14
ASXL2	CDKN1A	ERBB3	FLT4	HRAS	MAP2K2	NRAS	PREX2	SH2B3	TOP1
ATM	CDKN1B	ERBB4	FOXA1	HSD3B1	MAP2K4	NRG1	PRKAR1A	SH2D1A	TOP2A
ATR	CDKN2A	ERCC1	FOXL2	HSP90AA1	MAP3K1	NSD1	PRKCI	SHQ1	TP53
ATRX	CDKN2B	ERCC2	FOXO1	ICOSLG	MAP3K13	NTRK1	PRKDC	SLIT2	TP63
AURKA	CDKN2C	ERCC3	FOXO1	ID3	MAP3K14	NTRK2	PRSS8	SLX4	TRAF2
AURKB	CEBPA	ERCC4	FRS2	IDH1	MAP3K4	NTRK3	PTCH1	SMAD2	TRAF7
AXIN1	CENPA	ERCC5	FUBP1	IDH2	MAPK1	NUP93	PTEN	SMAD3	TSC1
AXIN2	CHD2	ERG	FYN	IFNGR1	MAPK3	NUTM1	PTPN11	SMAD4	TSC2
AXL	CHD4	ERRFI1	GABRA6	IGF1	MAX	PAK1	PTPRD	SMARCA4	TSHR
B2M	CHEK1	ESR1	GATA1	IGF1R	MCL1	PAK3	PTPRS	SMARCB1	U2AF1
BAP1	CHEK2	ETS1	GATA2	IGF2	MDC1	PAK7	PTPRT	SMARCD1	VEGFA
BARD1	CIC	ETV1	GATA3	IKBKE	MDM2	PALB2	QKI	SMC1A	VHL
BBC3	CREBBP	ETV4	GATA4	IKZF1	MDM4	PARK2	RAB35	SMC3	VTCN1
BCL10	CRKL	ETV5	GATA6	IL10	MED12	PARP1	RAC1	SMO	WISP3
BCL2	CRLF2	ETV6	GEN1	IL7R	MEF2B	PAX3	RAD21	SNCAIP	WT1
BCL2L1	CSF1R	EWSR1	GID4	INHA	MEN1	PAX5	RAD50	SOCS1	XIAP
BCL2L11	CSF3R	EZH2	GLI1	INHBA	MET	PAX7	RAD51	SOX10	XPO1
BCL2L2	CSNK1A1	FAM123B	GNA11	INPP4A	MGA	PAX8	RAD51B	SOX17	XRCC2
BCL6	CTCF	FAM175A	GNA13	INPP4B	MITF	PBRM1	RAD51C	SOX2	YAP1
BCOR	CTLA4	FAM46C	GNAQ	INSR	MLH1	PDCD1	RAD51D	SOX9	YES1
BCORL1	CTNNA1	FANCA	GNAS	IRF2	MLL	PDCD1LG2	RAD52	SPEN	ZBTB2
BCR	CTNNB1	FANCC	GPR124	IRF4	MLLT3	PDGFRA	RAD54L	SPOP	ZBTB7A
BIRC3	CUL3	FANCD2	GPS2	IRS1	MPL	PDGFRB	RAF1	SPTA1	ZFHX3
BLM	CUX1	FANCE	GREM1	IRS2	MRE11A	PDK1	RANBP2	SRC	ZNF217
BMPR1A	CXCR4	FANCF	GRIN2A	JAK1	MSH2	PDPK1	RARA	SRSF2	ZNF703
BRAF	CYLD	FANCG	GRM3	JAK2	MSH3	PGR	RASA1	STAG1	ZRSR2
BRCA1	DAXX	FANCI	GSK3B	JAK3	MSH6	PHF6	RB1	STAG2	
BRCA2	DCUN1D1	FANCL	H3F3A	JUN	MST1	PHOX2B	RBM10	STAT3	
BRD4	DDR2	FAS	H3F3B	KAT6A	MST1R	PIK3C2B	RECQL4	STAT4	
BRIP1	DDX41	FAT1	H3F3C	KDM5A	MTOR	PIK3C2G	REL	STAT5A	
BTG1	DHX15	FBXW7	HGF	KDM5C	MUTYH	PIK3C3	RET	STAT5B	
BTK	DICER1	FGF1	HIST1H1C	KDM6A	MYB	PIK3CA	RFWD2	STK11	
C11orf30	DIS3	FGF10	HIST1H2BD	KDR	MYC	PIK3CB	RHEB	STK40	

## 55 genes by RNA sequencing: • Fusions • Breakpoints • Splice variants

(All genes listed are assess for known and novel fusions, In addition, the content shaded in pink is analyzed for splice variants.)

ABL1	BRAF	EML4	ETV4	FGFR4	KIF5B	MSH2	NRG1	PX7	RAF1
AKT3	BRCA1	ERBB2	ETV5	FLI1	KIT	MYC	NTRK1	PDGFRA	RET
ALK	BRCA2	ERG	EWSR1	FLT1	MET	NOTCH1	NTRK2	PDGFRB	ROS1
AR	CDK4	ESR1	FGFR1	FLT3	ML	NOTCH2	NTRK3	PIK3CA	RPS6KB1
AXL	CSF1R	ETS1	FGFR2	JAK2	MLLT3	NOTCH3	PAX3	PPARG	TMPRSS2
BCL2	EGFR	ETV1	FGFR3	KDR					