



TRUSIGHT ONCOLOGY 500 (TSO500) DNA PANEL GENE LIST

DNA content									
ABL1	ABL2	ACVR1	ACVR1B	ADGRA2	AKT1	AKT2	AKT3	ALK	ALOX12B
AMER1	ANKRD11	ANKRD26	APC	AR	ARAF	ARFRP1	ARID1A	ARID1B	ARID2
ARID5B	ASXL1	ASXL2	ATM	ATR	ATRX	AURKA	AURKB	AXIN1	AXIN2
AXL	B2M	BAP1	BARD1	BBC3	BCL10	BCL2	BCL2L1	BCL2L11*	BCL2L2
BCL6	BCOR	BCORL1	BCR	BIRC3	BLM	BMPR1A	BRAF	BRCA1	BRCA2
BRD4	BRIP1	BTG1	BTK	CALR	CARD11	CASP8	CBFB	CBL	CCN6
CCND1	CCND2	CCND3	CCNE1	CD274	CD276	CD74	CD79A	CD79B	CDC73
CDH1	CDK12	CDK4	CDK6	CDK8	CDKN1A	CDKN1B	CDKN2A	CDKN2B	CDKN2C
CEBPA	CENPA*	CHD2	CHD4	CHEK1	CHEK2	CIC	COP1	CREBBP	CRKL
CRLF2	CSF1R	CSF3R	CSNK1A1	CTCF	CTLA4	CTNNA1	CTNNB1	CUL3	CUX1
CXCR4	CYLD	DAXX	DCUN1D1	DDR2	DDX41	DHX15	DICER1	DIS3	DNAJB1
DNMT1	DNMT3A	DNMT3B	DOT1L	E2F3	EED	EGFL7	EGFR	EIF1AX	EIF4A2
EIF4E	ELOC	EML4	EMSY	EP300	EPCAM	EPHA3	EPHA5	EPHA7	EPHB1
ERBB2	ERBB3	ERBB4	ERCC1	ERCC2	ERCC3	ERCC4	ERCC5	ERG	ERRFI1
ESR1	ETS1	ETV1	ETV4	ETV5	ETV6	EWSR1	EZH2	FANCA	FANCC
FANCD2	FANCE	FANCF	FANCG	FANCI	FANCL	FAS	FAT1	FBXW7	FGF1
FGF10	FGF14	FGF19	FGF2*	FGF23	FGF3	FGF4	FGF5	FGF6	FGF7*
FGF8	FGF9	FGFR1	FGFR2*	FGFR3	FGFR4	FH	FLCN	FLI1	FLT1
FLT3	FLT4	FOXA1	FOXL2	FOXO1	FOXP1	FRS2	FUBP1	FYN	GABRA6
GATA1	GATA2	GATA3	GATA4	GATA6	GEN1	GID4	GLI1	GNA11	GNA13
GNAQ*	GNAS*	GPS2	GREM1	GRIN2A	GRM3	GSK3B	H1-2	H2BC5	H3-3A
H3-3B	H3-4	H3-5	H3C1	H3C10	H3C11	H3C12	H3C13	H3C15	H3C2
H3C3	H3C4	H3C6	H3C7	H3C8	HGF	HLA-A	HNF1A	HNRNPK	HOXB13
HRAS	HSD3B1	HSP90AA1	ICOSLG*	ID3	IDH1	IDH2	IFNGR1	IGF1	IGF1R
IGF2	IKBKE	IKZF1	IL10	IL7R	INHA	INHBA	INPP4A	INPP4B	INSR
IRF2	IRF4	IRS1	IRS2	JAK1	JAK2	JAK3	JUN	KAT6A	KDM5A
KDM5C	KDM6A	KDR	KEAP1	KEL	KIF5B	KIT	KLF4	KLHL6	KMT2A
KMT2B	KMT2C	KMT2D	KRAS	LAMP1	LATS1	LATS2	LMO1	LRP1B	LYN
LZTR1	MAGI2*	MALT1	MAP2K1*	MAP2K2	MAP2K4	MAP3K1	MAP3K13	MAP3K14	MAP3K4
MAPK1	MAPK3	MAX	MCL1	MDC1	MDM2	MDM4	MED12	MEF2B	MEN1
MET	MGA	MITF	MLH1	MLLT3*	MPL	MRE11	MSH2	MSH3	MSH6
MST1*	MST1R	MTOR	MUTYH	MYB*	MYC	MYCL	MYCN	MYD88	MYOD1
NAB2	NBN	NCOA3	NCOR1*	NEGR1	NF1*	NF2	NFE2L2	NFKBIA	NKX2-1
NKX3-1	NOTCH1	NOTCH2*	NOTCH3*	NOTCH4	NPM1*	NRAS	NRG1	NSD1	NTRK1
NTRK2	NTRK3	NUP93	NUTM1	PAK1	PAK3	PAK7	PALB2	PARP1	PAX3
PAX5	PAX7	PAX8	PBRM1	PDCD1	PDCD1LG2	PDGFRA	PDGFRB	PKD1	PDPK1*
PGR	PHF6	PHOX2B	PIK3C2B	PIK3C2G	PIK3C3	PIK3CA	PIK3CB	PIK3CD	PIK3CG



DNA content

PIK3R1	PIK3R2	PIK3R3	PIM1	PLCG2	PLK2	PMAIP1	PMS1	PMS2*	PNRC1
POLD1	POLE	PPARG	PPM1D	PPP2R1A	PPP2R2A	PPP6C	PRDM1	PREX2	PRKAR1A
PRKCI	PRKDC	PRKN	PRSS8	PTCH1	PTEN	PTPN11	PTPRD	PTPRS	PTPRT
QKI	RAB35	RAC1	RAD21	RAD50	RAD51	RAD51B	RAD51C	RAD51D	RAD52
RAD54L	RAF1	RANBP2	RARA	RASA1	RB1	RBM10	RECQL4	REL	RET
RHEB	RHOA	RICTOR	RIT1	RNF43	ROS1	RPS6KA4	RPS6KB1	RPS6KB2	RPTOR
RUNX1	RUNX1T1	RYBP	SDHA	SDHAF2	SDHB	SDHC*	SDHD	SETBP1	SETD2
SF3B1	SH2B3	SH2D1A	SHQ1	SLIT2	SLX4	SMAD2	SMAD3	SMAD4	SMARCA4
SMARCB1	SMARCD1	SMC1A	SMC3	SMO*	SNCAIP	SOCS1	SOX10	SOX17	SOX2
SOX9	SPEN	SPOP	SPTA1	SRC	SRSF2	STAG1	STAG2	STAT3	STAT4
STAT5A*	STAT5B*	STK11	STK40	SUFU	SUZ12*	SYK	TAF1	TBX3	TCF3
TCF7L2	TENT5C	TERC	TERT Promoter*	TET1	TET2	TFE3	TFRC	TGFBR1	TGFBR2
TMEM127	TMPRSS2	TNFAIP3	TNFRSF14	TOP1	TOP2A	TP53	TP63	TRAF2	TRAF7
TSC1	TSC2	TSHR	U2AF1	VEGFA	VHL	VTCN1	WT1	XIAP	XPO1
XRCC2	YAP1	YES1	ZBTB2	ZBTB7A	ZFHX3	ZNF217	ZNF703	ZRSR2	

*Some protein-coding sequences may have low or no coverage in these genes

Copy Number Variants

AKT1	AKT2	AKT3	ALK	APC	AR	ARID1A	ATM	BAP1	BRAF
BRCA1	BRCA2	CCND1	CCND2	CCND3	CCNE1	CDK4	CDK6	CDKN2A	CDKN2B
CHEK1	CHEK2	CIC	EGFR	ERBB2	ERBB3	ERCC1	ERCC2	ESR1	FGF1
FGF10	FGF14	FGF19	FGF2	FGF23	FGF3	FGF4	FGF5	FGF6	FGF7
FGF8*	FGF9	FGFR1	FGFR2	FGFR3	FGFR4	FH	FLT3	JAK2	KIT
KRAS	LAMP1	MDM2	MDM4	MET	MLH1	MSH2	MSH6	MYC	MYCL
MYCN	NF1	NF2	NRAS	NRG1	NTRK1	NTRK2	NTRK3	PDGFRA	PDGFRB
PIK3CA	PIK3CB	PMS2*	PPM1D	PTCH1	PTEN*	RAF1	RB1*	RET	RICTOR
RPS6KB1	SETD2	SMARCB1	SOX2	STK11	SUFU	TFRC	TP53	TSC1	TSC2
VEGFA	VHL								

*Genes are not fully covered