

# GTC-Solid Tumor Profile

This test is designed to profile the molecular abnormalities in various solid tumors including cancers of the lung, pancreas, brain, colon, breast, Ovary, endometrium, thyroid, head and neck, and soft tissue (sarcoma and GIST). The test provides physicians with clinically actionable information. This profiling covers abnormalities in single nucleotide and indels in 434 genes. All exons of the of the 434 genes are covered and evaluated for abnormalities. In addition, the test is designed to detect microsatellite instability (MSI) and tumor mutational burden (TMB). Significant amplification in various genes can also be detected and reported. The provided information helps in determining prognosis, design therapeutic approach and predict response to therapy.

## Specimen Requirements:

-FFPE: 1 H&E slide and 6-8 unstained slides, 5-7 microns of tissue fixed with 10% NBF fixative. Please circle tumor for microdissection. Alternatively, the FFPE block can be sent for tumor circling and cutting at our laboratory.

## Shipping:

Ship using cold pack. The cold pack should not directly contact specimen. Ship As soon as sample collected with overnight delivery.

## Turn Around Time:

5-7 days

## Tested Genes

Genes Tested for Abnormalities in coding sequence																
ABC7	AURKB	C15ORF41	CEBPA	DICER1	FANCC	FLT3	GRIN2A	IRF2	LMO1	MSH2	NTRK1	POLE	RANBP2	SETD2	STAT4	TSC2
ABL1	AURKC	CALR	CHD2	DOT1L	FANCD2	FLT4	GRM3	IRF4	LPIN2	MSH6	NTRK2	POT1	RARA	SF3B1	STAT6	TSHR
ABL2	AXIN1	CARD11	CHD4	EED	FANCE	FOXL2	GSK3B	IRS2	LRP1B	MTOR	NTRK3	PPM1D	RB1	SLIT2	STK11	UZAF1
ACD	AXIN2	CBFB	CHEK1	EGFR	FANCF	FOXP1	GSKIP	JAGN1	LYN	MUTYH	NUP93	PPP2R1A	RBBP6	SLX4	SUFU	UZAF2
ACVR1B	AXL	CBL	CHEK2	EGLN1	FANCG	FRS2	H3F3A	JAK1	LYST	MVK	PAK3	PRDM1	RBM10	SMAD2	SUZ12	VEGFA
ADA	B2M	CBLB	CIC	ELANE	FANCI	FUBP1	HAX1	JAK2	LZTR1	MYC	PALB2	PREX2	RBM8A	SMAD3	SYK	VHL
AK2	BAP1	CBLC	CREBBP	EP300	FANCL	G6PC3	HGF	JAK3	MAGI2	MYCL	PARK2	PRKAR1A	RET	SMAD4	TAF1	WAS
AKT1	BARD1	CCND1	CRKL	EPAS1	FANCM	GABRA6	HIST1H3B	JUN	MAP2K1	MYCN	PAX5	PRKCI	RHEB	SMAD9	TAL1	WHSC1
AKT2	BCL2	CCND2	CRLF2	EPCAM	FAS	GALNT12	HNF1A	KAT6A	MAP2K2	MYD88	PBRM1	PRKDC	RHOA	SMAD9L	TBX3	WISP3
AKT3	BCL2L1	CCND3	CSF1R	EPHA3	FAT1	GATA1	HOXA11	KDM5A	MAP2K4	NBN	PDCD1LG2	PRSS1	RICTOR	SMARCA4	TCF3	WT1
ALK	BCL2L2	CCNE1	CSF3R	EPHA5	FBXW7	GATA2	HOXB13	KDM5C	MAP3K1	NF1	PDGFRA	PRSS8	RIT1	SMARCB1	TCIRG1	XPO1
AMER1	BCL6	CD274	CTC1	EPHA7	FGF10	GATA3	HRAS	KDM6A	MAP3K14	NF2	PDGFRB	PSTPIP1	RNF168	SMC1A	TERC	XRCC2
ANKRD26	BCOR	CD79A	CTCF	EPHB1	FGF14	GATA4	HSD3B1	KDR	MAPK1	NFE2L2	PKD1	PTCH1	RNF43	SMC3	TERF1	XRCC3
APC	BCORL1	CD79B	CTNNA1	ERBB2	FGF19	GATA6	HSP90AA1	KEAP1	MCL1	NFKBIA	PHF6	PTEN	ROS1	SMO	TERF2	ZBTB2
AR	BCR	CDAN1	CTNNB1	ERBB3	FGF23	GEN1	ID3	KEL	MDM2	NHP2	PIK3C2B	PTPN11	RPTOR	SNCAIP	TERF2IP	ZNF217
ARAF	BIRC3	CDC73	CUL3	ERBB4	FGF3	GFI1	IDH1	KIF23	MDM4	NKX2-1	PIK3CA	QKI	RTEL1	SOC1	TERT	ZNF703
ARFRP1	BLM	CDH1	CUX1	ERCC4	FGF4	GFI1B	IDH2	KIT	MED12	NLRP3	PIK3CB	RAB27A	RUNX1	SOX10	TET2	ZRSR2
ARID1A	BMPR1A	CDK12	CXCR4	ERG	FGF6	GID4	IGF1R	KLF1	MEF2B	NME1	PIK3CG	RAC1	RUNX1T1	SOX2	TGFBR2	
ARID1B	BRAF	CDK4	CYLD	ERRF1	FGFR1	GLI1	IGF2	KLHL6	MEFV	NOP10	PIK3R1	RAD21	SBDS	SOX9	TNFAIP3	
ARID2	BRCA1	CDK6	DAXX	ESR1	FGFR2	GLI2	IKBKE	KLLN	MEN1	NOTCH1	PIK3R2	RAD50	SBF2	SPEN	TNFRSF14	
ASXL1	BRCA2	CDK8	DDR2	ETV6	FGFR3	GNA11	JKZF1	KMT2A	Merged	NOTCH2	PIM1	RAD51	SDHA	SPOP	TNFRSF1A	
ATG2B	BRD4	CDKN1A	DDX11	EXO1	FGFR4	GNA13	JKZF3	KMT2B	MET	NOTCH3	PLCG1	RAD51B	SDHB	SPTA1	TOP1	
ATM	BRIP1	CDKN1B	DDX41	EZH2	FH	GNAQ	IL2RG	KMT2C	MITF	NPM1	PLCG2	RAD51C	SDHC	SRC	TOP2A	
ATR	BTG1	CDKN2A	DKC1	FAM175A	FLCN	GNAS	IL7R	KMT2D	MLH1	NRAS	PMS1	RAD51D	SDHD	SRSF2	TP53	
ATRX	BTK	CDKN2B	DNM2	FAM46C	FLI1	GPR124	INHBA	KRAS	MPL	NROB1	PMS2	RAD54L	SEC23B	STAG2	TRAF3	

