

TEMPUS xF PANEL

A non-invasive, liquid biopsy panel of 105 genes focused on oncogenic and resistance mutations in cell-free DNA (cfDNA). This panel is designed to provide clinical decision support for solid tumors.

- SNVs (single nucleotide variants) and indels are detected in all 105 genes
- Genomic rearrangements and copy number amplifications are detected on a subset of genes
- Microsatellite instability status* and median variant allele fraction are included in the report
- DNA Sequencing Coverage: average 20,000x
- Specimen Requirements: Two tubes of peripheral blood (8.5mL each)

xF GENE PANEL

AKT1	BTK	ERBB2 (HER2)	GNAS	MAP2K2	NOTCH1	PTPN11	STK11
AKT2	CCND1	ERRF1	HNF1A	MAPK1	NPM1	RAD51C	TERT
ALK	CCND2	ESR1	HRAS	MET	NRAS	RAF1	TP53
APC	CCND3	EZH2	IDH1	MLH1	NTRK1	RB1	TSC1
AR	CCNE1	FBXW7	IDH2	MPL	PALB2	RET	TSC2
ARAF	CD274 (PD-L1)	FGFR1	JAK1	MSH2	PBRM1	RHEB	UGT1A1
ARID1A	CDH1	FGFR2	JAK2	MSH3	PDCD1LG2	RHOA	VHL
ATM	CDK4	FGFR3	JAK3	MSH6	PDGFRA	RIT1	
ATR	CDK6	FHFR4	KDR	MTOR	PDGFRB	RNF43	
B2M	CDKN2A	FLT3	KEAP1	MYC	PIK3CA	ROS1	
BAP1	CTNNB1	FOXL2	KIT	MYCN	PIK3R1	SDHA	
BRAF	DDR2	GATA3	KMT2A	NF1	PMS2	SMAD4	
BRCA1	DPYD	GNA11	KRAS	NF2	PTCH1	SMO	
BRCA2	EGFR	GNAQ	MAP2K1	NFE2L2	PTEN	SPOP	

GENE REARRANGEMENTS

ALK	FGFR2	NTRK1	ROS1
BRAF	FGFR3	RET	

COPY NUMBER GAINS

CCNE1	EGFR	MET
CD274 (PD-L1)	ERBB2 (HER2)	MYC

*Starting 7/15/19, MSI status will be reported when the specimen is determined to be MSI-High.