

xF Gene 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 support for clinical decision making for solid tumors.

- SNVs (single nucleotide variants) and insertions and deletions (indels) are detected in all 105 genes
- Copy Number Gains (CNGs) and gene rearrangements are detected in a subset of genes

- DNA Sequencing Depth: average 20,000x (raw reads) / 5,000x (unique reads)
- Specimen Requirements: Two Streck tubes of peripheral blood (8.5mL each)

The report includes genomic alterations in select genes, microsatellite instability-high status when present,¹ median variant allele fraction (mVAF), therapy options and clinical trials matched to the patient’s genomic profile, as well as available clinical history.

xF GENE PANEL

AKT1	CCND1	ESR1	IDH1	MPL	PBRM1	RHOA
AKT2	CCND2	EZH2	IDH2	MSH2	PDCD1LG2	RIT1
ALK	CCND3	FBXW7	JAK1	MSH3	PDGFRA	RNF43
APC	CCNE1	FGFR1	JAK2	MSH6	PDGFRB	ROS1
AR	CD274 (PD-L1)	FGFR2	JAK3	MTOR	PIK3CA	SDHA
ARAF	CDH1	FGFR3	KDR	MYC	PIK3R1	SMAD4
ARID1A	CDK4	FGFR4	KEAP1	MYCN	PMS2	SMO
ATM	CDK6	FLT3	KIT	NF1	PTCH1	SPOP
ATR	CDKN2A	FOXL2	KMT2A	NF2	PTEN	STK11
B2M	CTNNB1	GATA3	KRAS	NFE2L2	PTPN11	TERT
BAP1	DDR2	GNA11	MAP2K1	NOTCH1	RAD51C	TP53
BRAF	DPYD	GNAQ	MAP2K2	NPM1	RAF1	TSC1
BRCA1	EGFR	GNAS	MAPK1	NRAS	RB1	TSC2
BRCA2	ERBB2 (HER2)	HNF1A	MET	NTRK1	RET	UGT1A1
BTK	ERRF1	HRAS	MLH1	PALB2	RHEB	VHL

GENE REARRANGEMENTS

ALK	BRAF	FGFR2	FGFR3	NTRK1	RET	ROS1
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COPY NUMBER GAINS

CCNE1	EGFR	ERBB2 (HER2)	MET	MYC
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¹ MSI status will be reported when the specimen is determined to be MSI-High