

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 insertions and deletions (indels) are detected in all 105 genes
- Copy Number Amplifications (CNAs), Copy Number Deletions (CNDs)¹, and gene rearrangements (translocations) 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 status², median variant allele fraction (mVAF), therapy options and clinical trials matched to the patient's genomic profile, as well as clinical history.

xF GENE PANEL

| | | | | | | | | | |
|--------|---------------|--------------|-------|-------|--------|----------|--------|-------|--------|
| AKT1 | BRAF | CDK6 | FGFR1 | HRAS | MAP2K1 | MYCN | PDGFRA | RET | TERT |
| AKT2 | BRCA1 | CDKN2A | FGFR2 | IDH1 | MAP2K2 | NF1 | PDGFRB | RHEB | TP53 |
| ALK | BRCA2 | CTNNB1 | FGFR3 | IDH2 | MAPK1 | NF2 | PIK3CA | RHOA | TSC1 |
| APC | BTK | DDR2 | FGFR4 | JAK1 | MET | NFE2L2 | PIK3R1 | RIT1 | TSC2 |
| AR | CCND1 | DPYD | FLT3 | JAK2 | MLH1 | NOTCH1 | PMS2 | RNF43 | UGT1A1 |
| ARAF | CCND2 | EGFR | FOXL2 | JAK3 | MPL | NPM1 | PTCH1 | ROS1 | VHL |
| ARID1A | CCND3 | ERBB2 (HER2) | GATA3 | KDR | MSH2 | NRAS | PTEN | SDHA | |
| ATM | CCNE1 | ERRF1 | GNAI1 | KEAP1 | MSH3 | NTRK1 | PTPN11 | SMAD4 | |
| ATR | CD274 (PD-L1) | ESR1 | GNAQ | KIT | MSH6 | PALB2 | RAD51C | SMO | |
| B2M | CDH1 | EZH2 | GNAS | KMT2A | MTOR | PBRM1 | RAF1 | SPOP | |
| BAP1 | CDK4 | FBXW7 | HNF1A | KRAS | MYC | PDCD1LG2 | RB1 | STK11 | |

GENE REARRANGEMENTS

| | | | | | | |
|-----|------|-------|-------|-------|-----|------|
| ALK | BRAF | FGFR2 | FGFR3 | NTRK1 | RET | ROS1 |
|-----|------|-------|-------|-------|-----|------|

COPY NUMBER GAINS

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

COPY NUMBER LOSSES

| | |
|-------|-------|
| BRCA1 | BRCA2 |
|-------|-------|

PERFORMANCE SPECIFICATIONS

| | Variant Allele Fraction (VAF) | Sensitivity ³ |
|-----------------------------------|-------------------------------|--------------------------|
| Single Nucleotide Variants (SNV) | >0.5% | >99.9% |
| | 0.50% | >99.9% |
| | 0.25% | 97% |
| | 0.10% ⁴ | 70.4% |
| Insertions and Deletions | >0.5% | 98.8% |
| | 0.50% | 96.0% |
| | 0.25% | 81.0% |
| Copy Number Amplifications (CNAs) | >0.5% | >99.9% |
| | 0.5% | >99.9% |
| Rearrangements/Fusions | >0.5% | 97.4% |
| | 0.50% | 70.8% |

ANALYTICAL SPECIFICITY

| Variant Type | Specificity ³ |
|--------------|--------------------------|
| SNV | >99.9% |
| INDEL | >99.9% |
| CNA | 96.2% |
| Fusion | >99.9% |

1. BRCA1 and BRCA2 copy number loss are reported when detected
2. MSI status will be reported when the specimen is determined to be MSI-High
3. Established using reference materials
4. For selected hot spot regions