

PredicineCARE

152-Gene CLIA-certified cfDNA Liquid Biopsy Panel

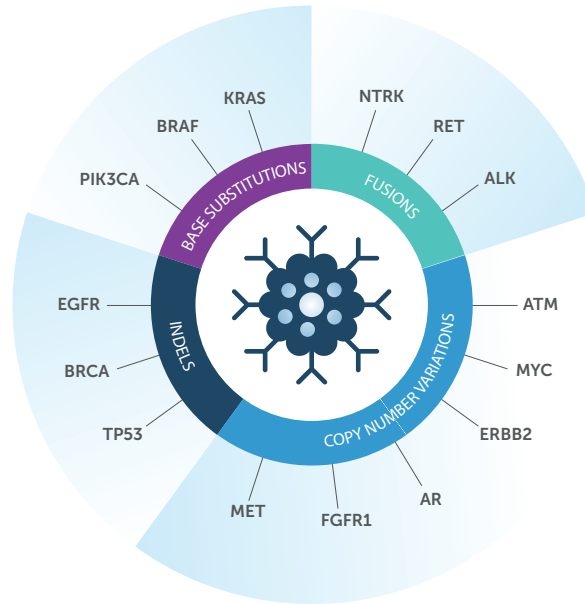
A pan-cancer liquid biopsy test that detects clinically actionable genes to inform patient care and clinical trials in targeted therapy and IO

152

Key cancer genes interrogated

582_{kb}

Broad genome coverage



Methods and Reporting

- Identifies four main classes of genomic alterations (base substitutions, insertions and deletions, copy number variations, and re-arrangements)
- Covers biomarkers with FDA-approved drugs and emerging biomarkers for clinical applications
- Features an optimized workflow to achieve high sensitivity and specificity for variant detection
- Uses a proprietary hybrid capture-based NGS methodology combined with in-house proprietary computational algorithms to enable accurate and sensitive detection of cancer variants
- Test results are provided in an interpretive report with clinically relevant genomic findings listed

PERFORMANCE SPECIFICATION

Specimen Type and Requirement	8ml plasma 20ml whole blood
Turnaround Time	10 days
Regions Analyzed	152 genes
Panel Size	582kb
Sequencing	Illumina NGS
Assay Sensitivity	0.25% report down to 0.1%
Target Sequence Coverage	>20,000X for biofluid

Current Gene List

Entire coding sequence (base substitutions and indels)

ABRAXAS1	AKT1	AKT2	AKT3	ALK*	APC	AR	ARAF	ARID1A	ATM
ATRX	BAP1	BARD1	BCL2	BRAF	BRCA1	BRCA2	BRIP1	BTK*	CCND1
CCND2*	CCND3	CCNE1*	CD274 (PD-L1)	CDH1	CDK12	CDK4	CDK6	CDKN2A	CHEK1
CHEK2	CTNNB1*	CXCR4	CYP2C19*	CYP2D6*	CYP3A4*	DAXX	DDR2*	DPYD*	EGFR
EPCAM*	ERBB2 (HER2)	ERBB3*	ERCC1	ESR1	EZH2	FANCA	FANCC	FANCF	FANCG
FANCL	FAT1*	FBXW7*	FEN1	FGFR1	FGFR2	FGFR3	FGFR4	FLT3*	FOXA1
FOXL2	GEN1	GNA11	GNAQ	GNAS*	GSTP1*	HNF1A*	HOXB13	HRAS	IDH1*
IDH2*	JAK2*	JAK3*	KDM6A*	KIT	KMT2C*	KMT2D* (MLL2)	KRAS	MAP2K1 (MEK1)	MAP2K2 (MEK2)
MAPK1	MAPK3	MDM2	MET	MLH1	MPL*	MRE11	MSH2	MSH6	MTHFR*
MTOR*	MYC	MYCN	MYD88	NBN	NF1*	NFE2L2*	NOTCH1*	NPM1*	NRAS
NTRK1	NTRK2	NTRK3	PALB2	PDCD1LG2 (PD-L2)	PDGFRA*	PIK3CA	PIK3CB	PIK3R1	PLCG2*
PMS2	POLD1	POLE	PPP2R1A*	PRKACA*	PRKD1*	PTEN	PTPN11	RAD50	RAD51
RAD51B	RAD51C	RAD51D	RAD52	RAF1	RB1	RET*	RHEB*	RHOA*	RIT1*
RNF43*	ROS1*	SDHB	SMAD4	SMO	SPOP	STAG2	STK11	TERT* promoter	TP53
TSC1*	TSC2*	UGT1A1*	VHL	XPC*	XRCC1*				

CNVs

AKT1	AKT2	AKT3	APC	AR	ARID1A	ATM	ATRX	BRAF	BRCA1
BRCA2	CCND1	CCND2	CCND3	CCNE1	CCNE2	CD274	CDK12	CDK2	CDK4
CDK6	CDKN2A	E2F1	EGFR	ERBB2	ERBB3	FAT1	FGFR1	FGFR2	FGFR3
FGFR4	FZR1	GNA11	JAK2	KIT	KRAS	MAP2K2	MDM2	MET	MYC
MYCN	NF1	PALB2	PDCD1LG2	PDGFRA	PIK3CA	POLE	PTEN	RAF1	RB1
ROS1	SMO	TP53	TPRSS2						

Fusions

ALK	BRAF	CD274	CD74	EGFR	FGFR1	FGFR2	FGFR3	NTRK1	NTRK2
PDGFRA	PRKACA	RET	ROS1	TPRSS2					

*Genes with selected exonic coverage

Workflow

