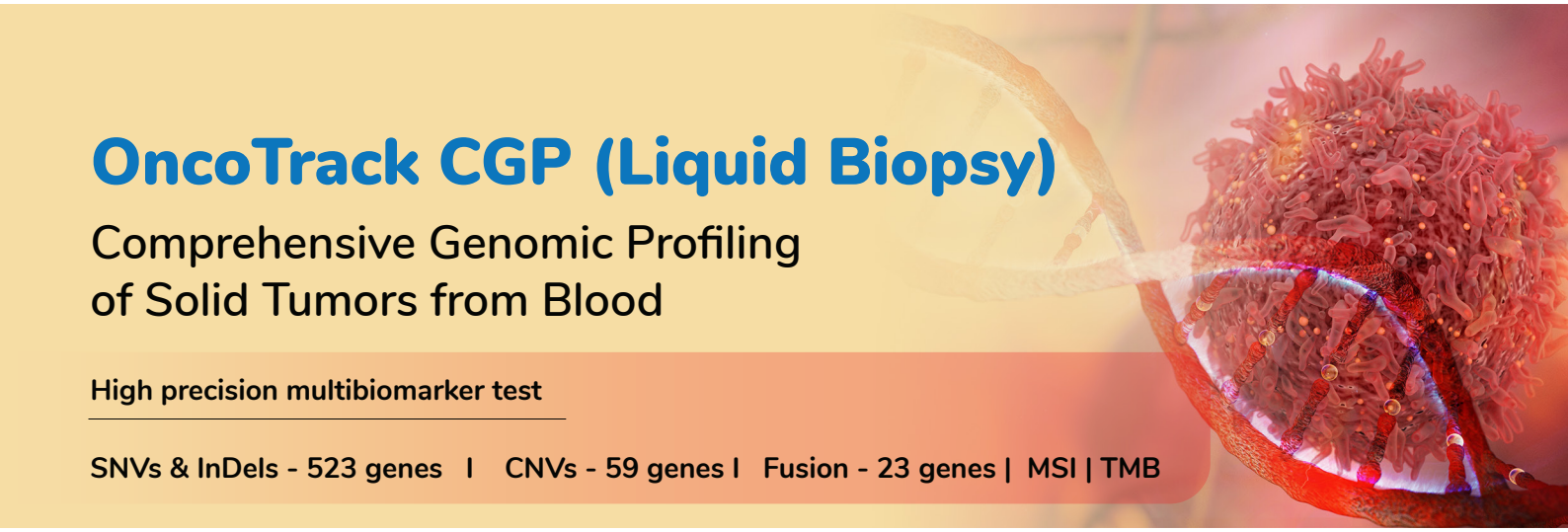
MEDGENOME | Prima Cancer Genetics

CAP ACCREDITED
COLLEGE of AMERICAN PATHOLOGISTS

OncoTrack CGP (Liquid Biopsy)

Comprehensive Genomic Profiling of Solid Tumors from Blood



High precision multibiomarker test

SNVs & InDels - 523 genes I CNVs - 59 genes I Fusion - 23 genes | MSI | TMB

Features

- Provides comprehensive genomic profiling from blood sample for all solid tumors
- Achieve low limits of detection with UMI-based hybrid– capture library preparation and deep sequencing.
- Sophisticated variant calling algorithms and high depth of sequencing enable detection of key biomarkers in cfDNA with 0.5% limit of detection (LOD)
- Leverage minimally invasive blood samples as a complement to tissue biopsy or as an alternative when tissue is not readily available
- Detects low-frequency somatic variants across 523 genes with high sensitivity and specificity
- Well - validated as per CAP guidelines. High throughput Illumina's sophisticated NGS platforms

Use in Clinical Practice

- Advanced solid tumors
- Before first-line therapy or at progression

Biomarkers

Single Nucleotide Variants (SNVs)	Small Insertions (<20bp)	Small Deletions (<20bp)
Multinucleotide Variants (MNVs)	Gene Amplifications	Gene Deletions
Gene Rearrangements (Fusions)	Tumor Mutational Burden (TMB)	Microsatellite Instability (MSI)

Test Details

Test Code
MGM3309

Sample Type
Peripheral Blood in Streck Tube (10ml X 2)

Shipping Condition
Ship same or next day at room temperature. Do not freeze or refrigerate

TAT
21 Working days from sample receipt at the laboratory to result

Gene List: 523 genes for SNVs | 59 genes for CNVs (bold) | 23 genes for fusion (underlined)

ABL1	CALR	DNAJB1	**FGF14**	HIST1H3A	KEAP1	**MYCL**	PIK3CD	RHOA	SUFU
ABL2	CARD11	DNMT1	**FGF19**	HIST1H3B	KEL	**MYCN**	PIK3CG	**RICTOR**	SUZ12
ACVR1	CASP8	DNMT3A	**FGF2**	HIST1H3C	KIF5B	MYD88	PIK3R1	RIT1	SYK
ACVR1B	CBFB	DNMT3B	**FGF23**	HIST1H3D	**KIT**	MYOD1	PIK3R2	RNF43	TAF1
AKT1	CBL	DOT1L	**FGF3**	HIST1H3E	KLF4	NAB2	PIK3R3	ROS1	TBX3
AKT2	**CCND1**	E2F3	**FGF4**	HIST1H3F	KLHL6	NBN	PIM1	RPS6KA4	TCEB1
AKT3	CCND2	EED	**FGF5**	HIST1H3G	KMT2B	NCOA3	PLCG2	**RPS6KB1**	TCF3
ALK	**CCND3**	EGFL7	**FGF6**	HIST1H3H	KMT2C	NCOR1	PLK2	RPS6KB2	TCF7L2
ALOX12B	**CCNE1**	**EGFR**	**FGF7**	HIST1H3I	KMT2D	NEGR1	PMAIP1	RPTOR	TERC
ANKRD11	CD274	EIF1AX	**FGF8**	HIST1H3J	**KRAS**	NF1	PMS1	RUNX1	TERT
ANKRD26	CD276	EIF4A2	**FGF9**	HIST2H3A	**LAMP1**	NF2	PMS2	RUNX1T1	TET1
APC	CD74	EIF4E	**FGFR1**	HIST2H3C	LATS1	NFE2L2	PNRC1	RYBP	TET2
AR	CD79A	EML4	**FGFR2**	HIST2H3D	LATS2	NFKBIA	POLD1	SDHA	TFE3
ARAF	CD79B	EP300	**FGFR3**	HIST3H3	LMO1	NKX2-1	POLE	SDHAF2	**TFRC**
ARFRP1	CDC73	EPCAM	**FGFR4**	HLA-A	LRP1B	NKX3-1	PPARG	SDHB	TGFBR1
ARID1A	CDH1	EPHA3	FH	HLA-B	LYN	NOTCH1	PPM1D	SDHC	TGFBR2
ARID1B	CDK12	EPHA5	FLCN	HLA-C	LZTR1	NOTCH2	PPP2R1A	SDHD	TMEM127
ARID2	**CDK4**	EPHA7	FLI1	HNF1A	MAGI2	NOTCH3	PPP2R2A	SETBP1	TMPRSS2
ARID5B	**CDK6**	EPHB1	FLT1	HNRNPK	MALT1	NOTCH4	PPP6C	SETD2	TNFAIP3
ASXL1	CDK8	**ERBB2**	FLT3	HOXB13	MAP2K1	NPM1	PRDM1	SF3B1	TNFRSF14
ASXL2	CDKN1A	**ERBB3**	FLT4	HRAS	MAP2K2	**NRAS**	PREX2	SH2B3	TOP1
ATM	CDKN1B	ERBB4	FOXA1	HSD3B1	MAP2K4	**NRG1**	PRKAR1A	SH2D1A	TOP2A
ATR	CDKN2A	**ERCC1**	FOXL2	HSP90AA1	MAP3K1	NSD1	PRKCI	SHQ1	TP53
ATRX	CDKN2B	**ERCC2**	FOXO1	ICOSLG	MAP3K13	NTRK1	PRKDC	SLIT2	TP63
AURKA	CDKN2C	ERCC3	FOXP1	ID3	MAP3K14	NTRK2	PRSS8	SLX4	TRAF2
AURKB	CEBPA	ERCC4	FRS2	IDH1	MAP3K4	NTRK3	PTCH1	SMAD2	TRAF7
AXIN1	CENPA	ERCC5	FUBP1	IDH2	MAPK1	NUP93	**PTEN**	SMAD3	TSC1
AXIN2	CHD2	ERG	FYN	IFNGR1	MAPK3	NUTM1	PTPN11	SMAD4	TSC2
AXL	CHD4	ERRFI1	GABRA6	IGF1	MAX	PAK1	PTPRD	SMARCA4	TSHR
B2M	**CHEK1**	**ESR1**	GATA1	IGF1R	MCL1	PAK3	PTPRS	SMARCB1	U2AF1
BAP1	**CHEK2**	ETS1	GATA2	IGF2	MDC1	PAK7	PTPRT	SMARCD1	VEGFA
BARD1	CIC	ETV1	GATA3	IKBKE	**MDM2**	PALB2	QKI	SMC1A	VHL
BBC3	CREBBP	ETV4	GATA4	IKZF1	**MDM4**	PARK2	RAB35	SMC3	VTCN1
BCL10	CRKL	ETV5	GATA6	IL10	MED12	PARP1	RAC1	SMO	WISP3
BCL2	CRLF2	ETV6	GEN1	IL7R	MEF2B	PAX3	RAD21	SNCAIP	WT1
BCL2L1	CSF1R	EWSR1	GID4	INHA	MEN1	PAX5	RAD50	SOCS1	XIAP
BCL2L11	CSF3R	EZH2	GLI1	INHBA	**MET**	PAX7	RAD51	SOX10	XPO1
BCL2L2	CSNK1A1	FAM123B	GNA11	INPP4A	MGA	PAX8	RAD51B	SOX17	XRCC2
BCL6	CTCF	FAM175A	GNA13	INPP4B	MITF	PBRM1	RAD51C	SOX2	YAP1
BCOR	CTLA4	FAM46C	GNAQ	INSR	MLH1	PDCD1	RAD51D	SOX9	YES1
BCORL1	CTNNA1	FANCA	GNAS	IRF2	MLL	PDCD1LG2	RAD52	SPEN	ZBTB2
BCR	CTNNB1	FANCC	GPR124	IRF4	MLLT3	**PDGFRA**	RAD54L	SPOP	ZBTB7A
BIRC3	CUL3	FANCD2	GPS2	IRS1	MPL	**PDGFRB**	**RAF1**	SPTA1	ZFHX3
BLM	CUX1	FANCE	GREM1	IRS2	MRE11A	PDK1	RANBP2	SRC	ZNF217
BMPR1A	CXCR4	FANCF	GRIN2A	JAK1	MSH2	PDPK1	RARA	SRSF2	ZNF703
BRAF	CYLD	FANCG	GRM3	**JAK2**	MSH3	PGR	RASA1	STAG1	ZRSR2
BRCA1	DAXX	FANCI	GSK3B	JAK3	MSH6	PHF6	RB1	STAG2	
BRCA2	DCUN1D1	FANCL	H3F3A	JUN	MST1	PHOX2B	RBM10	STAT3	
BRD4	DDR2	FAS	H3F3B	KAT6A	MST1R	PIK3C2B	RECQL4	STAT4	
BRIP1	DDX41	FAT1	H3F3C	KDM5A	MTOR	PIK3C2G	REL	STAT5A	
BTG1	DHX15	FBXW7	HGF	KDM5C	MUTYH	PIK3C3	**RET**	STAT5B	
BTK	DICER1	**FGF1**	HIST1H1C	KDM6A	MYB	**PIK3CA**	RFWD2	STK11	
C11orf30	DIS3	**FGF10**	HIST1H2BD	KDR	**MYC**	**PIK3CB**	RHEB	STK40	

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