

## COMPREHENSIVE SOLID TUMOR PROFILING

OncoGxOne™ Plus detects cancer-driving mutations that prompt recommendations for targeted chemotherapy and immunotherapy drugs

- Detects SNVs, Indels, and CNVs (from DNA) and Fusions (from RNA)
- Average depth of coverage exceeds 250x resulting in mutation detection with high specificity and sensitivity
- Turnaround time of 7 to 10 business days

### Somatic Mutation Detection

#### Single Nucleotide Variants



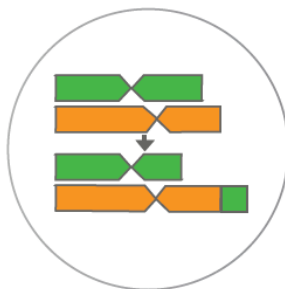
e.g., BRAF V600E

#### Insertions/deletions



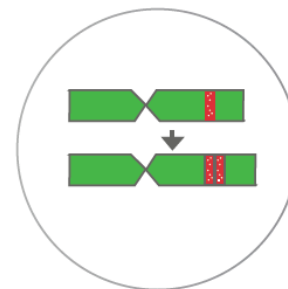
e.g., EGFR exon 19\_del

#### Fusions



e.g., EML4-ALK

#### Copy Number Variations



e.g., ERBB2

### Detects Immuno-Oncology Parameters That May Call For Anti-PD1 Therapy:

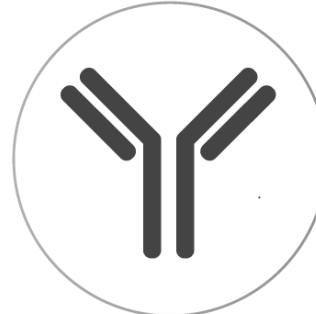
#### Microsatellite instability



#### Tumor Mutation Burden



#### HLA-typing



Pairs with

**PGxOnco™**

**LiquidGx™ qPCR**

**LiquidGx™ NGS**

## List of OncoGxOne™ Panel Genes (364 genes in total, 38 sequenced from DNA and RNA in gray box)

ABL1	BCL6	BTK	PDCD1LG2	CTNNA1	RAC1	FANCC	FGF23	SDHC	HLA-DPA1	TERT	MAP2K1	MEF2B
ACVR1B	BCOR	C11orf30	PDGFRA	CUL3	DOT1L	FANCD2	FGF3	SDHD	HLA-DPB1	TET2	MAP2K2	MEN1
AKT1	NF2	CALR	PDGFRB	CUL4A	EED	FANCF	FGF4	SETD2	HLA-DQA1	IFG1	MAP2K4	MERTK
AKT2	NFE2L2	CARD11	PDK1	CXCR4	EGFR	RAD21	FGF6	SF3B1	HLA-DQB1	IGF1R	MAP3K1	MET
AKT3	NFKBIA	CASP8	PIK3C2B	CYP17A1	EP300	RAD50	FGFR1	SGK1	HLA-DRA	IKBKE	TGFBR1	MITF
ALK	NKX2-1	CBFB	PIK3C2G	D17S250	EPHA3	RAD51	FGFR2	SLC34A2	HLA-DRB1	IKZF1	TGFBR2	MKNK1
ALOX12B	NOTCH1	CBL	PIK3CA	DAXX	EPHA5	RAD51B	FGFR3	SMAD2	HLA-DRB5	INPP4B	TIPARP	MLH1
AMER1	NOTCH2	CCND1	PIK3CB	DDR1	EPHB1	RAD51C	FGFR4	SMAD4	HNF1A	IRF2	TMPRSS2	MPL
APC	NOTCH3	CCND2	PIK3CD	DDR2	EPHB4	RAD51D	FH	SMARCA4	HRAS	IRF4	TNFAIP3	MRE11A
AR	NPM1	CCND3	PIK3R1	DIS3	ERBB2	RAD52	FLCN	SMARCB1	HSD3B1	IRS2	TNFRSF14	MSH2
ARAF	NRAS	CCNE1	CDK6	DNMT1	ERBB3	RAD54L	FLT1	SMO	ID3	JAK1	TOP1	MSH3
ARFRP1	NRG1	CD22	CDK8	DNMT3A	ERBB4	RAF1	FLT3	GID4	IDH1	JAK2	TP53	MSH6
ARID1A	NT5C2	CD274	CDKN1A	PIM1	ERCC2	RARA	FLT4	GNA11	IDH2	JAK3	TSC1	MST1R
ASXL1	NTRK1	CD70	CDKN1B	PMS1	ERCC3	RB1	FOXO2	GNA13	SNCAIP	JUN	TSC2	MTAP
ATM	NTRK2	CD74	CDKN2A	PMS2	ERCC4	RBM10	FOXO1	GNAQ	SOCS1	KDM5A	TYRO3	MTOR
ATR	NTRK3	CD79A	CDKN2B	POLD1	ERG	REL	FUBP1	GNAS	SOX2	KDM5C	U2AF1	MUTYH
ATRX	NUTM1	CD79B	CDKN2C	POLE	ERRF1	RET	FYN	GRM3	SOX9	KDM6A	VEGFA	MYB
AURKA	P2RY8	CDC73	CEPBA	PPARG	ESR1	RICTOR	GABRA6	GSK3B	SPEN	KDR	VHL	MYC
AURKB	PALB2	CDH1	CHEK1	PPP2R1A	ETV1	RNF43	GATA3	H3F3A	SPOP	KEAP1	WHSC1	MYCL
AXIN1	BCORL1	CDK12	CHEK2	PPP2R2A	ETV4	ROS1	GATA4	HDAC1	SRC	KEL	WHSC1L1	MYCN
AXL	BCR	CDK4	CIC	PRDM1	ETV5	FANCG	GATA6	HGF	STAG2	KIT	WT1	MYD88
B2M	BRAF	PARK2	CREBBP	PRKAR1A	ETV6	FANCL	GEN1	HLA-A	STAT3	KLHL6	MAP3K13	NBN
BACH1	BRCA1	PARP1	CRKL	PRKCI	EWSR1	FAS	RPA1	HLA-B	STK11	KMT2A	MAPK1	NF1
BAP1	BRCA2	PARP2	CRLF2	PTCH1	EZH2	FBXW7	RPTOR	HLA-C	SUFU	KMT2D	MAPI3	XPO1
BARD1	BRD4	PARP3	CSF1R	PTEN	EZR	FGF10	RSPO2	HLA-DMA	SYK	KRAS	MCL1	XRCC2
BCL2	BRIP1	PAX5	CSF3R	PTPN11	FAM46C	FGF12	SDC4	HLA-DMB	TBX3	LTK	MDM2	YES1
BCL2L1	BTG1	PBRM1	CTCF	PTPRO	FAM175A	FGF14	SDHA	HLA-DOA	TEK	LYN	MDM4	ZNF217
BCL2L2	BTG2	PDCD1	CTNNA1	QKI	FANCA	FGF19	SDHB	HLA-DOB	TERC	MAF	MED12	ZNF703

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