



# CancerSeq™ Plus

Our newest and most comprehensive CancerSeq™

## CNVs, SNPs, and indels Screened from Tumor FFPE Tissues

BioChain's CancerSeq™ Plus FFPE tissues have been prescreened for copy number variations (CNVs), single nucleotide polymorphisms (SNPs), and insertions/deletions (indels) in cancer gene hotspots. These tissues are ideal for verifying methods as well as identifying and genotyping new variants within tumors.

DNA extracted from FFPE tissues was screened for mutations with Next Generation Sequencing (NGS) using ArcherDx's VariantPlex. This target-enriched system incorporates random start sites and unique fragment identification to generate complex libraries.

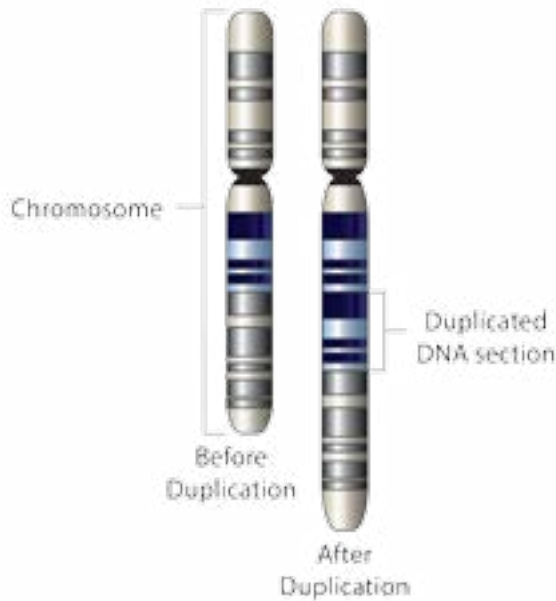
### Key Features

- Rigorous pre-sequencing screening
- CNV, SNP, indel data available
- Decreased false positive reporting of C to T
- Accurate and stringent variant calling
- **Expanded cancer gene panel—67 genes**
- **Choose relevant sequenced FFPE tissue**
- **Clinical histories available**

### Applications:

- Validate cancer marker mutations
- Controls or verification for genotyping
- Companion diagnostics assay development
- FFPE DNA and RNA isolation

## Copy Number Variation



### 67 Cancer Gene Panel

ABL1	CDK4	EZH2	H3F3A	MAP2K1	PDGFRA	SMARCB1
AKT1	CDKN2A	FBXW7	HNF1A	MDM2	PIK3CA	SMO
ALK	CSF1R	FGFR1	HRAS	MET	PIK3R1	SRC
APC	CTNNB1	FGFR2	IDH1	MLH1	PTEN	STK11
ATM	DDR2	FGFR3	IDH2	MPL	PTPN11	TERT
AURKA	EGFR	FLT3	JAK2	MYC	RB1	TP53
BRAF	ERBB2	FOXL2	JAK3	MYCN	RET	VHL
CCND1	ERBB3	GNA11	KDR	NOTCH1	RHOA	
CCNE1	ERBB4	GNAQ	KIT	NPM1	ROS1	
CDH1	ESR1	GNAS	KRAS	NRAS	SMAD4	

CancerSeq™ Plus offers tissues and data on CNVs, SNPs and in/dels of 67 cancer genes.

Tissue Type	Sample #	Strong Evidence for CNV	Copy Number	SD	P-Value
lung	1	CCNE1	4.13	0.62	4.16E-04
		EGFR	4.83	0.99	4.16E-04
lung	2	CCND1	3.08	0.11	8.31E-03
lung	3	EGFR	7.50	1.26	2.55E-04
		ERBB2	6.45	0.61	2.55E-04
		GNAS	4.59	1.17	2.03E-03

Each lot of tissue is supplied as 5 curls/scrolls per vial and with detailed NGS information.

Gene	Type	Chromosome	Coordinates	Reference	Mutation	Quality	Allele Type
ALK	snp	chr2	29445458	G	T	9567.4	hom
APC	snp	chr5	112177171	G	A	6397.7	hom
CDH1	ins	chr16	68857544	CAA	CAAA	1781.3	het
CDKN2A	snp	chr9	21971004	A	T	454.6	hom
EZH2	snp	chr7	148508833	A	G	1427.8	het
H3F3A	snp	chr1	226252239	T	A	137.5	het
MLH1	snp	chr3	37067240	T	A	3287.7	het
NOTCH1	ins	chr9	139399601	TC	TGAGC	251.0	het
PTEN	snp	chr10	89720907	T	G	1063.6	het
RB1	ins	chr13	49034022	ATT	ATTT	769.3	hom
STK11	snp	chr19	1218523	G	T	32230.2	het
TP53	snp	chr17	7579472	G	C	18992.7	hom

We carry multiple lots of each type of tissues. Please contact us for more information.

Catalog No.	Product	Unit
T2235152-SC	CancerSeq™ Plus Paraffin Tissue Tumor Section: Lung	5 Curls
T2235265-SC	CancerSeq™ Plus Paraffin Tissue Tumor Sections: Thyroid	5 Curls

Please inquire about our other kits and applications.



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