



# NextGen Cancer Hotspot 50 Gene Panel

## NEXT GENERATION SEQUENCING

Platform: IonGene Studio S5



Multiplex PCR based NGS assay for Rapid Cancer profiling of Somatic Mutations.



Analytical Sensitivity: 98% detection rate for 5% variant frequency.



Extremely Uniform coverage for more efficient sequencing and cost savings.



Provides accurate variant calling.

## NextGen Cancer Hotspot 50 Gene Somatic Panel

- Comprehensive NGS panel for detection of cancer biomarkers including 2800 mutations from 50 oncogenes and tumor suppressor genes, including key target genes EGFR, KRAS, RET, BRAF, ALK, ROS
- Detection of actionable genomic alterations (hotspot mutations, CNV and fusion isoforms) and selection of therapy
- Helps in decision making for alternate and emerging targeted therapies for patients that have failed 1st or 2nd line of therapy
- Allows translational researchers to fast track oncology research by surveying hotspot regions of 50 oncogenes and tumor suppressor genes with wide coverage
- Sample requirement for processing- an FFPE block and with at least 10% tumor content
- Low level variant detection
- Requires 10 ng of input DNA for the assay

### 50 Genes covered in Cancer Hot Spot Panel

ABL1	EGFR	GNAS	KRAS	PTPN11
AKT1	ERBB2	GNAQ	MET	RB1
ALK	ERBB4	HNF1A	MLH1	RET
APC	EZH2	HRAS	MPL	SMAD4
ATM	FBXW7	IDH1	NOTCH1	SMARCB1
BRAF	FGFR1	JAK2	NPM1	SMO
CDH1	FGFR2	JAK3	NRAS	SRC
CDKN2A	FGFR3	IDH2	PDGFRA	STK11
CSF1R	FLT3	KDR	PIK3CA	TP53
CTNNB1	GNA11	KIT	PTEN	VHL

### Test Details:

Test Code	Test Name	Technique	Specimen	TAT / Reported on	Price
C0260	NextGen Cancer Hotspot 50 Gene Panel	Next Generation Sequencing	FFPE tissue block	21 days	28000

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