

**DISCOVER**  
**DIAGNOSE**  
**DEFEND**



# Cancer Hotspot 50 Gene Somatic Panel

By Next Generation Sequencing



## **NEXT GENERATION SEQUENCING**

- ▶ Analytical sensitivity of NGS is 5%- which means that if a given mutation/ variant is present in 5% of the cells then it would be successfully identified
- ▶ Multiplexing allows detection of multiple mutations in a single sample
- ▶ Each DNA nucleotide is read 100-1000 times which adds to the specificity of the assay
- ▶ Provides accurate, reliable data and excellent coverage

## Cancer Hotspot 50 Gene Somatic Panel

- Identification of actionable mutations in 50 genes- wide ranging applications in multiple tumors such as NSCLC, Colorectal, Breast, Prostate, Head & Neck and many more.
- Provides comprehensive information of the actionable mutations at the start of therapy or if no actionable mutation reported from the preliminary testing.
- 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; opportunity to enrol the patient for clinical trial.
- Sample requirement for processing- an FFPE block/ FNA slide with at least 10% tumor content and having at least 100 tumor cells.

### 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
SMO10284	NGS Cancer Hot Spot Panel	Next Generation Sequencing	FFPE tissue block	21 days

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