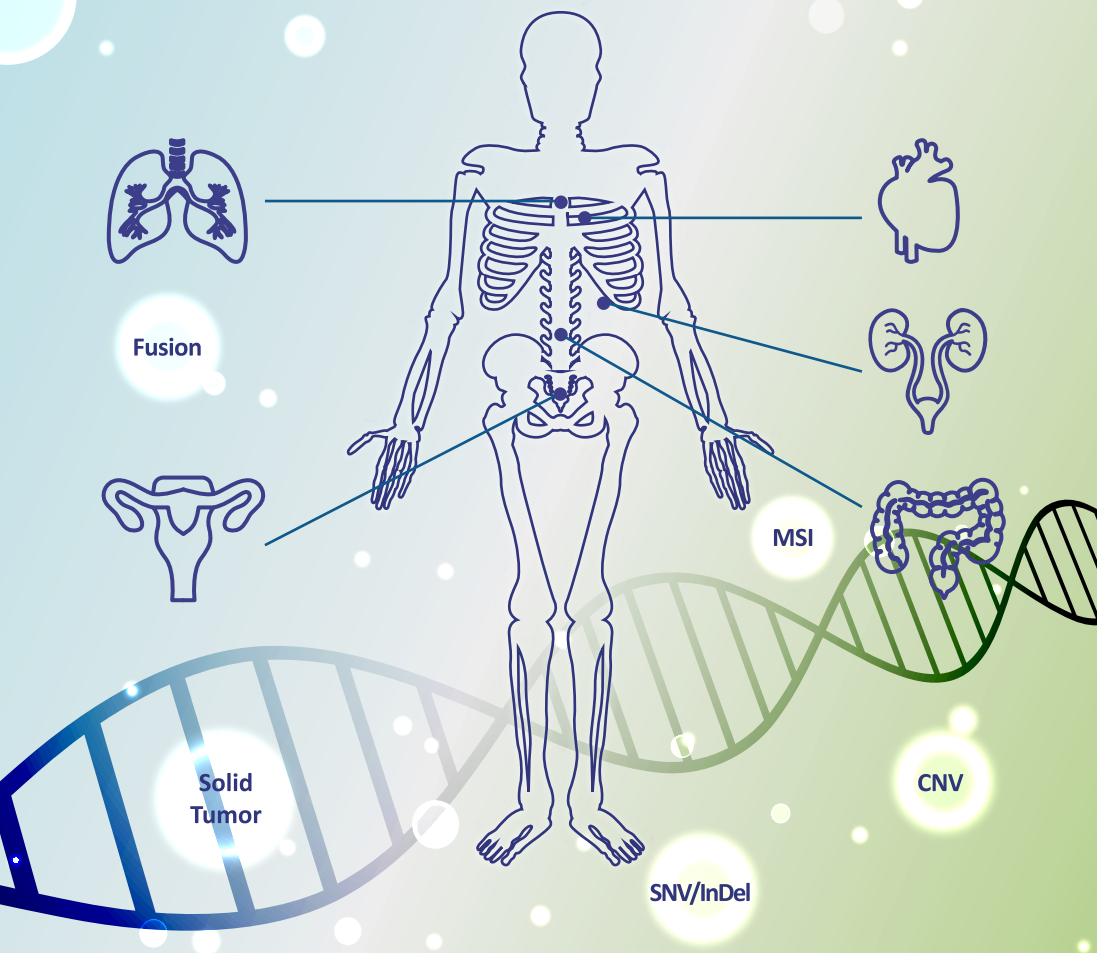


***abNEX*[™] OncoDx[®] Panel** **(198 Genes + MSI)**

Precision Tumor Detection for Personalized Medicine

COMPREHENSIVE COVERAGE | SUPERB PERFORMANCE



Product Advantages

Comprehensive Coverage

- Variant detection of 198 cancer-related genes and MSI, including known actionable targets for cancer therapy.
- Applicable for a spectrum of solid tumors, including lung cancer, colorectal cancer, breast cancer, urologic cancer and gynecologic cancer.

High Accuracy and Wide Clinical Application

- Comprehensive interpretation of biomarkers with therapeutic value, prognostic value or diagnostic value by utilizing an in-house tumor variant knowledge database.
- Provide assistance of personalized treatment, targeted therapy, immunotherapy, prognosis prediction and genetic risk assessment. Recommendation by National Cancer Center

High Uniformity

- Whole coverage of exons for actionable targets and interval coverage of other genes with clinical value.
- 2x probe coverage to enhance depth uniformity. Important regions are covered by 4x doubled probes to Increase depth.

Superb Performance

Variant type	SNV/InDel (VAF)	Fusion (VAF)	CNV gain (copies)	CNV loss (copies)	MSI (tumor DNA content)
LOD	2%	2%	4	1	10%

LOD shown above is determined under the condition of 25ng of DNA and 1000X of depth.

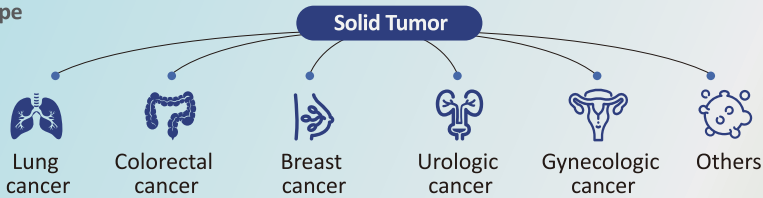
VAF: variant allele frequency; CNV: copy number variation; MSI: microsatellite instability

Sample Requirements

Sample Type	Sample Requirement
FFPE	From surgical specimen: ≥ 5 slices From puncture specimen: ≥ 10 slices DNA input: ≥ 20 ng
Fresh tissue	Surgical specimen: ≥ 50 mg (rice size), tumor percent ≥ 20% Puncture specimen: ≥ 2 needles DNA input: ≥ 10 ng

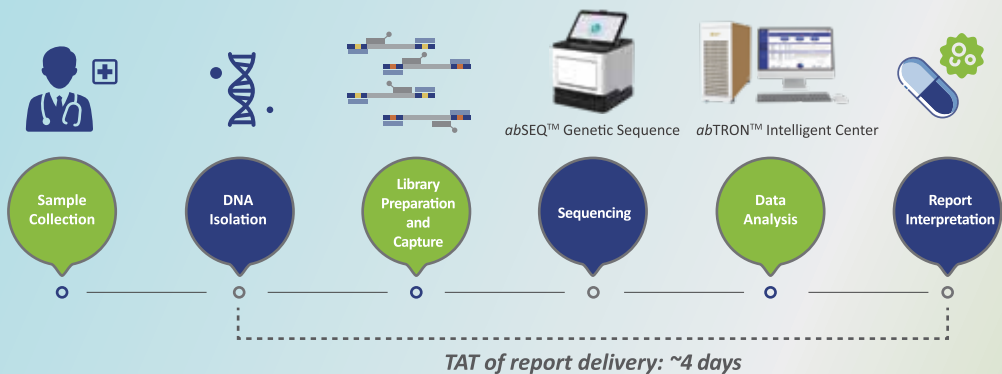
Scope of Detection

Cancer type



Cancer related genes

SNV/InDel (198 genes)							
ACVR1B	ACVR2A	AKT1	AKT2	AKT3	ALK	APC	AR
ARAF	ARID1A	ARID2	ATM	ATR	ATRX	B2M	BAP1
BARD1	BMPR1A	BRAF	BRCA1	BRCA2	BRIP1	CARD11	CBL
CCND1	CCND2	CCNE1	CD160	CD274	CD79A	CDH1	CDK12
CDK4	CDK6	CDKN2A	CHEK1	CHEK2	CREBBP	CRKL	CTNNB1
CUL3	DDR2	EGFR	EP300	EPCAM	EPHA3	ERBB2	ERBB3
ERBB4	ERCC2	ESR1	ETV1	EZH2	FANCA	FANCL	FBXW7
FGF14	FGF19	FGF3	FGF4	FGFR1	FGFR2	FGFR3	FGFR4
FH	FLT1	FLT3	FLT4	FOXA2	FOXP1	GATA2	GATA3
GATA4	GNA11	GNAQ	GNA5	GRM3	HAVCR2	HGF	HIST1H1C
HNF1A	HRAS	ICOS	IDH1	IDH2	IGF1R	IKZF1	IL7R
ITK	KDM5A	KDR	KEAP1	KIT	KMT2C	KMT2D	KRAS
LEF1	LIMK1	LRRK2	LYN	MAGEA12	MAGEA4	MAP2K1	MAP2K2
MAP2K4	MAPK1	MDM2	MED12	MEF2B	MET	MLH1	MPL
MSH2	MSH3	MSH6	MTOR	MUTYH	MYC	MYCN	MYD88
NAV3	NBN	NCOA4	NF1	NF2	NFE2L2	NKX2-1	NOTCH1
NOTCH2	NRAS	NRG1	NTRK1	NTRK2	NTRK3	PALB2	PBRM1
PDCD1	PDCD1LG2	PDGFRA	PDGFRB	PKD1	PIK3C2G	PIK3CA	PIK3CB
PIK3R1	PIK3R2	PMS1	PMS2	POLD1	POLE	POLQ	PPP2R1A
PRKN	PRX	PTCH1	PTEN	PTPN11	PTPRD	PTPRT	RAD50
RAD51B	RAD51D	RAD54L	RAF1	RB1	RBM10	RECQL4	RET
ROS1	SDHA	SETBP1	SETD2	SF3B1	SGK1	SMAD4	SMARCA4
SMARCB1	SMO	SOC51	SOX17	SOX2	SOX9	SPOP	STAT3
STK11	TERT	TET2	TGFB1	TGFB2	TP53	TSC1	TSC2
TSHZ2	U2AF1	VEGFB	VHL	WT1	XPO1		
Fusion (12 genes)				CNV (26 genes)			
ALK	BRAF	EGFR	FGFR2	AKT1	ALK	ATM	BRCA2
FGFR3	MET	NRG1	NTRK1	CDK12	CDK4	EGFR	ERBB2
NTRK2	NTRK3	RET	ROS1	FGFR1	FGFR2	FGFR3	KDR
				KIT	KRAS	MET	MSH2
				MSH6	NRAS	NTRK1	NTRK3
				PDGFRA	PIK3CA	PTEN	SMARCA4
				SMO	STK11		



Hybrid Capture-based Enrichment

- Higher uniformity
- Lower sequencing failure rates
- Easier to customizable

Flexible Sequencing Platform

- PE150, 6GB output
- Up to 12 samples per run
- Flexible
- Cost effective

Automatic Data Analysis System

- User-friendly
- Automated analysis
- Standalone database

Ordering Information

Part Number	Product Name	Packaging Size
800580	<i>abPrep</i> ™ 6	1 unit
800581	<i>abPrep</i> ™ 24	1 unit
800800	<i>abGenix</i> ™ Automated DNA & RNA Extraction System	1 unit
801001	<i>abSEQ</i> ™ Genetic Sequencer	1 unit
801021	<i>abTRON</i> ™ Intelligent Center	1 unit
800970	<i>abGenix</i> ™ Sample Diluent	48rxns/kit
800971	<i>abGenix</i> ™ Universal Extraction Kit	48rxns/kit
302211	<i>abNEX</i> ™ Pan-Infection Kit	48rxns/kit
302212	<i>abNEX</i> ™ MTB/MDR Kit	48rxns/kit
302011	<i>abSEQ</i> ™ Sequencing Set SE100	48rxns/kit

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