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OncoTarget.°

ONCOTARGET®

"The Next Generation in Cancer Diagnostics."

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OncoTarget[®] Next-Generation Cancer Diagnostics

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OncoTarget[®] was created specifically for cancer patients. Every patient's cancer is unique, which is why discovering what makes it unique can be essential for determining how best to treat them. Biomarkers give us insight into exactly why a cancer is taking a certain path. They can also predict how a cancer will respond to a specific therapy. By identifying these genetic mutations, we can determine which targeted therapies or immunotherapies have the best chance of treating a specific cancer, making this an essential tool for creating better treatment plans.

OncoTarget[®]- 125 is changing the way cancer is being treated. This highly-sensitive, NGS-based testing series examines the full exons of 125 well-characterized cancer genes found in solid tumors for point mutations, copy number alterations, microsatellite instability (MSI), and rearrangements. OncoTarget[®]- 125 provides oncologists with clinically actionable data including a complete list of all identifiable genetic alterations, relevant FDA-approved drugs and current clinical trials specific to a patient's cancer. The genes tested in OncoTarget[®]- 125 are of highly clinical and biologic importance and are screened using NGS at extremely high coverage.



Figure 1. OncoTarget[®]- 125 Components

OncoTarget[®]- 48 is a smaller NGS panel created to detect actionable hotspot mutations in the 48 cancer genes most relevant to targeted therapies. With the OncoTarget[®] series, you'll get results that are right "on target" -- comprehensive, actionable data that will lead to better treatment options for your patients.

Table 1. Genes Evaluated in OncoTarget[®]- 125

Analysis Type							Genes E	valuate	ed					
Full coding analysis in 117 well-characterized cancer genes, as well as *amplification analysis for 41 genes	ABL1 CDK4 ⁺ ERBB4 FLT3 ⁺ KDR ⁺ MSH6 PALB2 RARA TP53	AKT1* CDK6* ERCC3 FLT4* KEAP1 MST1R* PDGFRA* RB1 TSC1	ALK* CDKN2A ERG FOXL2 KIT* MTOR PDGFRB* RET* TSC2	AR ⁺ CHEK2 ESR1 GNA11 KMT2A MYC ⁺ PIK3CA ⁺ RNF43 VEGFA ⁺	ATM CREBBP EZH2 GNAQ KRAS ⁺ MYCN ⁺ PIK3CB ⁺ ROS1 ⁺ VHL	ATRX CSF1R* FANCA GNAS MAP2K1 MYD88 PIK3R1 RUNX1*	AXL ⁺ CTNNB1 FANCD2 HDAC2 MAP2K2 NBN PMS2 SDHB	BCL2 ⁺ DDR2 FANCG HNF1A MEN1 NF1 POLD1 SMAD4	BRAF* DNIMT3A FBXW7 HRAS MET* NOTCH1 POLE SMARCB1	BRCA1 ⁺ EGFR ⁺ IDH1 MLH1 NPM1 PTCH1 SMO	BRCA2 EP300 FGFR2* IDH2 MLH3 NRAS PTEN SRC	CCND1 ⁺ EPHA2 FGFR3 ⁺ JAK1 MPL NTRK1 ⁺ PTPN11 STK11	CCND2 ⁺ ERBB2 ⁺ FGFR4 ⁺ JAK2 ⁺ MRE11A NTRK2 ⁺ RAD51 TERT	CCND3 ⁺ ERBB3 ⁺ FLT1 ⁺ JAK3 MSH2 NTRK3 ⁺ RAF1 TET2
Rearrangements analyses for selected regions of 29 well-characterized genes	ALK EWSR1 TMPRSS2	AXL FGFR1	BCR FGFR2	BCL2 FGFR3	BRAF MYC	BRCA1 NTRK1	BRCA2 NTRK2	CBFB NTRK3	egfr Pdgfra	erg Pdgfrb	ETV1 RAF1	etv4 Rara	ETV5 RET	ETV6 ROS1
Microsatellite analysis for 5 well-characterized mononucleotide sequences	BAT-25	BAT-26	NR-21	NR-24	MONO-2	27								

Table 2. OncoTarget[®]- 125 Key Metrics

Regions Analyzed	Coding regions of 125 genes			
Sequencing Method	Illumina next-generation sequencing			
Bioinformatics	Patented PARE, Digital Karyotyping and VariantDx			
Assay Sensitivity	>99%			
Assay Specificity	>99%			
Sequencing Coverage	1,250x			
Turn-around Time	14 days			
Sample Requirements	Tumor only or tumor and matched normal* (optimal results)			
Sample Types	FFPE (Formalin-Fixed			
	Paraffin-Embedded) Tissue			
DNA Input Required	1ug (minimum 50 ng)			
*For maximum ability to differentiate somatic mutations from germline mutations, tumor and matched normal samples are recommended.				

Figure 2. Depiction of Next-Generation Sequencing Data for Identifying Sequence Alterations

HUMAN GENOME REFERENCE SEQUENCE
ATCGATCGATCGATCGATCGATCGATCGATCGATCGATCG
NEXT-GENERATION SEQUENCING DATA
ATCG ATCGATCGATCGATCGATCGATCGATCGAT TCGATCGATCGATCGATCGATCGATCGATCGATCGATCGA
TUMOR-SPECIFIC SOMATIC MUTATION (G>C)
ATCGATCGATCGATCGATCCGATCGATCGATCGATCGATC

Our Proprietary Bioinformatics Algorithm on Targeted Cancer Genes:

- Analyses performed in a CLIA-certified laboratory designed for high-complexity clinical testing
- Analysis using validated approach for optimal sensitivity & specificity
- Detailed inspection and curation of tumor-specific mutations by world-class cancer bioinformatics experts
- Identification of mutated genes with biologic or clinical implications in human cancer
- Proprietary Digital Karyotyping analyses for high-resolution annotation of copy number alterations
- Proprietary PARE translocation analysis algorithms to evaluate tumor-specific rearrangements
- Proprietary analysis algorithms to evaluate genes and pathways enriched for alterations
- Proprietary analysis algorithms to identify bona fide sequence changes and to exclude sequence artifacts
- Proprietary sample preparation methods allow for successful preparation of low abundance, poor quality sample DNA



Figure 3. Depiction of NGS Sequencing Data for Identifying Translocations

	OncoTarget [®] - 125	FoundationOne
Sensitivity	>99% at 2% mutant allele frequency for base substitutions and indels	99% for base substitutions at \geq 5% mutant allele frequency, 98% for indels at \geq 10% mutant allele frequency
Specificity (With Normal)	>99% PPV that mutations called are both present and actually somatic in nature (5% MAF)	Analysis using patient normal not offered (No normal)
Use of Patient Normal to Enhance Results	Yes	No

Table 3. Competitor Analysis: OncoTarget[®]- 125 vs. FoundationOne

Next-Generation Sequencing Method & Workflow

Patient samples undergo pathologic evaluations by macroscopic selection of tumor regions, from which DNA is extracted. Next-generation sequencing libraries are constructed from tumor and normal DNA, which are sequenced to 1000x average coverage on Illumina nextgeneration sequencing systems. After base calling and alignment to the human reference genome, the tumor and normal samples are compared to one another to identify tumor-specific sequence mutations, copy number changes, microsatellite instability (MSI) and rearrangements. The data is then compiled into one comprehensive, actionable report.

Our Comprehensive Analysis Reporting

OncoTarget[®]- 125 gives you a comprehensive, specific look at your patient's cancer and what factors are driving its growth. If a relevant mutation is found, the gene and its specific alteration will be listed on the report, along with the significance of this alteration in relation to your patient's tumor.

The OncoTarget[®] - 125 report includes:

- Pathological evaluation of tumor sample
- Tumor-specific sequence alterations (single base and small index alterations)
- Therapeutic, predictive, and prognostic information and references regarding mutated genes and pathways with biological or clinical significance
- Tumor-specific copy number alterations & translocations
- Description of mutated genes and pathways with biologic or clinical implications
- Annotation of tumor-specific alteration consequences
- Data summary statistics (read data and depth distribution across target regions)

OncoTarget®- 48 Hotspot Mutation Analysis

We have also created a smaller NGS-based panel that detects hundreds of actionable hotspot mutations in 48 cancer genes most relevant to targeted cancer therapies. OncoTarget[®]- 48 analyzes >35 kilobases (kb) of targeted genomic regions by 212 amplicons in both FFPE and fresh tissues. Validation study on more than 40 samples from common cancer types demonstrated that OncoTarget[®]- 48 is a highly-sensitive, specific, and reproducible NGS assay for the detection of somatic mutations of target cancer genes. The assay provides a high level of uniform coverage across the target genomic regions with >500 average base coverage and >100 minimal base coverage. It has 92% sensitivity and 100% specificity with 91% PPV and 99% NPV for detection of mutations within the genomic sequences covered by the gene panel. Value of limit of detection (LOD) of the assay is \geq 3% for mutation detections.

Table 4. Genes Evaluated in OncoTarget[®]- 48

Analysis Type						Genes	Evaluate	d				
Actionable Hotspot Mutations in 48 Cancer Genes	ABL1 ERBB4 JAK2 PIK3CA	AKT1 FBXW7 JAK3 PTEN	ALK FGFR1 KDR PTPN11	APC FGFR2 KIT RB1	ATM FGFR3 KRAS RET	BRAF FLT3 MET SMAD4	CDH1 GNA11 MLH1 SMARCB1	CDKN2A GNAQ MPL SMO	CSF1R GNAS NOTCH1 SRC	CTNNB1 HNF1A NPM1 STK11	EGFR HRAS NRAS TP53	ERBB2 IDH1 PDGFRA VHL

Figure 4. Workflow of Next-Generation Sequencing and Analyses





Providing Suggested Targeted Therapies & Clinical Trials

Discovering what mutations are driving a cancer's growth is an essential part of assessing treatment options. Biomarkers can help determine which targeted therapies may or may not be successful in treating a particular type of cancer. Targeted sequencing and mutation analysis obtained from OncoTarget[®]- 125 may include prognostic indicators, improved disease classification, additional therapies and relevant clinical trials. This data can help physicians make treatment recommendations that target a cancer's specific genetic mutation and thus rule out treatment options that are likely to be ineffective. The OncoTarget[®]- 125 report includes a list of FDA-approved drugs and clinical trials that are most relevant to your patient's cancer including somatic vs. germline mutations, microsatellite instability testing, and treatment options based on the patient's specific alterations--information that can be essential for making informed treatment decisions and selecting targeted therapies.

Molecular Testing Requisition

LABORATORIES	MOLECU 1351 Barclay Bh Tel: 855.467.3	ULAR ONCOLOG vd., Buffalo Grove, 2849 Fax: 224.588 gopathlabs.com	3Y IL 60069 9941			
PATIENT INFORMATION (Please print)		ORDERING PH	YSICIAN / LAB INFORMATIO	N (Please print)		
Name (Last, First)		Facility Name _				
Address		Name (Last, Fir	s4)			
City, State, Zip		Address				
Female D Male Date of Birth (M/D/Y)		City, State, Zip				
SSN# (Optional)		Phone#	Fax#	E-Mail:		
Phone#		Ordering Physic	sian	(M/D/Y)		
Diagnosis:	NPI#	Treating Physici	an:			
		Report Delivery	Fax E-Mail Mail	Website Only		
CODING INFORMATION		COMMON ICD	10 CODES			
Diagnosis Codet/CD-10 Code (Required) The physician is required to document all applicable all feats ordered supporting medical measury which care. Example: ICD-10: C73 (Malignant mooplasm)	a ICD codes or descriptions for h shall be used in patient plan of of thyroid gland)	Bladder: C67 1 Brain: C71.9, C C34.11, C34.12 Melanoma: C43	Breast: C50.411, C50.412, C50 79.31 Colon: C18.2, C18.7, C 1, C34.2, C34.30, C34.31, C34.3 9 Ovarian: C56 Prostate: C	419, C50.811, C50.812, C50.819 18.9 GIST C49 Lung: C34.10, 32, C34.80, C34.81, C34.82, C34.90 51 Stomach: C16.9 Thyroid: C73		
BILLING INFORMATION (Please provide c	opy of insurance card)	SPECIMEN INF	ORMATION (Please provide	copy of pathology report)		
Primary Insurance		Pathology Depr	artment			
Bill: 🗆 Insurance 🗆 Medicare 🗆 Medicaid 🖂	Hospital 🗆 Client 🗆 Self Pay	Phone#:		Fax#		
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Place of Service:		Type: Slides Block Archived Specimen:				
21 - Inpatient Hospital 22 - Outpatient Hospit	al 24 - Ambulatory Surgery Ctr	Body Site: Primary C Metastatic C				
ROST (FIGH), POL1 (HC)	P. N. J. PR.SLA	ONCOTARGET®	ONCO-TRACKING ¹⁰			
Expanded Driver Profile: EGFR MUTATION, ALK (FISH) and ROS1 (FISH). PDL1 (HC), BRAF, MET (FISH) and RET (FISH)	KRAS (exons 2, 3 and 4) BRAF NRAS (exons 2, 3 and 4) PROCA		capture NGS panel detecting mutations, reamangements, copy number and MSI	for early signs of cancer recurrence and metastasis via solid tumor anal and liquid thiopsy		
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EGFR T790M Drug Resistance:	Methylation (MathylTek ⁽¹⁾) -	GoPath's	Individual Markers:	D PTEN (FISH) D PCA3		
🗆 Solid Turnor 🗌 Liquid Biopsy	PCR assay	riyacon queare	D NRAS			
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Our requisition is easy-to-read with clearly-defined categories listed by cancer type, which makes for easy test ordering. All of our requisitions are also available online and can be customized with your office's information to streamline the ordering process.

OncoTarget® - 125 Specimen Requirements

Preparation of normal and tumor genomic DNA can be extracted from FFPE block, or alternately, from saliva or blood for matched normal. The DNA is subsequently subjected to quantification, DNA fragmentation and library preparation procedures. Table 5 describes the collection amount required for OncoTarget[®]- 125 testing. GoPath Laboratories will provide the corresponding DNA collection kit depending on the collection sample.

Table 5. OncoTarget[®]- 125 Samples Required

Specimen	Quantity
Tumor Tissue FFPE	10-15 5 μm blanks
Non-Tumor Tissue FFPE	10-15 5 µm blanks
Saliva, Blood	For matched normal, as specified
Shipping Conditions	Room temperature for FFPE; Cold pad for saliva or blood

GoPath Connect[™]: Stay Connected to Your Patients' Reports 24/7



GoPath Connect[™] makes it easy to connect to your patients' pathology reports anytime, from anywhere. With a wide range of test ordering and result retrieval options, as well as cloud-based solutions, GoPath Connect[™] works seamlessly with your existing platform and workflow and connects you with your patient's reports and images in real-time from any device that is connected to the internet.

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- View high quality images
- Email/fax report notification
- Time-saving & secure e-requisitions
- Safe, encrypted data environment
- One-click report printing
- Optional remote auto-faxing
- Web-based & paper ordering
- EMR/PMS interfacing

GoPath Laboratories' Client Services

Let Us Help You Get Started

Providing appropriate information saves valuable time, eliminates confusion, limits phone calls & shortens turnaround time.

- Indicate Billing
- Patient's Legal Name
- Patient's DOB and Gender
- Date of Service / Collection
- Patient's Address and Phone Number
- Ordering Physician's Name, Facility and NPI
- ICD10-CM Codes

Account Set Ups

- Immediate
- Customized Requisitions
- Personalized In-Service and Training
- Convenient Supply Ordering
- Specialized Account Set Up Team

Office Pickup Options

- Local Courier Services
- FedEx Express
- FedEx Same Day City

Billing Capabilities

Billing shouldn't frustrate your patients or distract your staff. We offer the following billing solutions:

- In-Network Lab Accepting All Government
 Insurances
- Work With Most Insurances & Customized
 Billing Options Available
- Convenient Client Billing
- Dedicated Billing Support
- Technical and Professional Model Billing also Available
- Tech-Only Services

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- Licenses and Accreditations
- FISH/IHC/LIS Reporting
- Test Supply Order Forms
- Information About Our Pathologists,
- Scientific and Executive Team Members



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