TruSight[™] Oncology Comprehensive

Results report example



For In Vitro Diagnostic Use. Not available in all regions and countries.

Results report

TruSight Oncology Comprehensive (TSO Comprehensive) makes comprehensive genomic profiling (CGP) accessible to laboratories, enabling simultaneous analysis of biomarkers (DNA and RNA variants and complex genomic signatures) with known cancer associations in less time than conventional, iterative testing methods. Integral to the solution is the TSO Comprehensive results report. This report is automatically generated on the NextSeq[™] 550Dx System during the TSO Comprehensive workflow. The resulting streamlined results report:

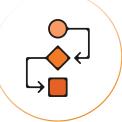
- Is easy to interpret, clearly indicating patient sample information, companion diagnostic (CDx) results, and cancer mutation findings
- Provides companion diagnostics (CDx) indications for current CDx claims
- Identifies cancer mutations with evidence of clinical significance (therapeutic, prognostic, or diagnostic) based on
 information in US FDA–approved drug labels or major US clinical practice guidelines for the patient's tumor type, as
 specified by the Knowledge Base¹ and supporting rules engine

The TSO Comprehensive results report is meant to be incorporated into a final clinical report produced by the laboratory and provided to clinicians who make decisions on patient management. The design and content of the final clinical report is up to the discretion of the laboratory.

Important facts and benefits of the Knowledge Base¹ supporting the TSO Comprehensive results report



Content evaluated and approved by expert oncologists and pathologists



ISO 13485-compliant evidence curation workflow produces IVD-compliant knowledge base



Inclusive data scope and maintenance provide comprehensive coverage

<u> </u>	

Rules-based Knowledge Base and software engine ensure variants are identified and populated in the correct tier in the report

Abbreviations: ASCO, American Society of Clinical Oncology; FDA, Federal Drug Administration; ISO, International Organization for Standardization; IVD, in vitro diagnostic

The TSO Comprehensive results report

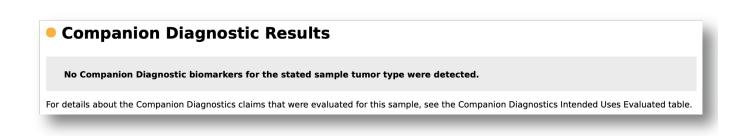
marmina musight	Oncology Comprehensive	re (US) FOR IN	VITRO DIAGNOSTIC USE Report Date 2024-03-19
Sample ID Jane Do Tumor Type Sex Female	ell lung cancer NNA External (RNA Library Q DNA External (DNA Library Q	Control & NTC / F IC / F Control & NTC / F IC / F	PASS Run ID 231212_NDX550167_0215_AH7LLLBDXY Analysis Date 2024-03-19 Knowledge Base Version 8.9.0.0326 Knowledge Base Published Date 2023-06-22 Module Version 2.5.3.x Claims Package Version 3.1.1.0
Companion	Diagnostic Resu	lts *	
Detected Variants/Biomarke	rs Therapy	Usage	Details
LMNA-NTRK1 Fusion	VITRAKVI® (larotrectinib)	Indicated	Type: Fusion Breakpoint 1: chr1:156100562 Breakpoint 2: chr1:156844696 Fusion Supporting Reads: 64
KIF5B-RET Fusion	RETEVMO® (selpercatinib)	Indicated	Type: Fusion Breakpoint 1: chr10:32306071 Breakpoint 2: chr10:43609927 Fusion Supporting Reads: 73
Cancer Mutation	s with Evidence of Details	Clinical Signifi	cance **
EGFR p. (Asp770_Asn771insGl			Nucleotide Change: NM_005228.5:c.2310_2311insGGT e Allele: C Alternate Allele: CGGT
(Asp770_Asn771insG)	 VÄF: 3.57% Consequen Genomic Position: chr7 with Potential Cli TMB: 3.2 Mut/Mb 	7:55249012 Reference	e Allele: C Alternate Allele: CGGT
(Asp770_Asn771insGl	 VÄF: 3.57% Consequen Genomic Position: chr7 Is with Potential Cli TMB: 3.2 Mut/Mb Details Type: SNV 	7:55249012 Reference inical Significa	e Allele: C Alternate Allele: CGGT nce ** cotide Change: NM_000038.5:c.4348C>T Genomic
(Asp770_Asn771insGly	 VÄF: 3.57% Consequen Genomic Position: chr7 s with Potential Cli TMB: 3.2 Mut/Mb Details Type: SNV VAF: 11.39% Consequence Position: chr5:112175639 Type: SNV VAF: 31.09% Consequence 	7:55249012 Reference inical Significa te: Stop Gained Nucle Reference Allele: C / te: Missense Variant I	e Allele: C Alternate Allele: CGGT nce ** cotide Change: NM_000038.5:c.4348C>T Genomic
(Asp770_Asn771insGk Cancer Mutation Detected Variants APC p.(Arg1450Ter)	 VÄF: 3.57% Consequen Genomic Position: chr7 Is with Potential Cli TMB: 3.2 Mut/Mb Details Type: SNV VAF: 11.39% Consequenc Position: chr5:112175639 Type: SNV VAF: 31.09% Consequenc Nucleotide Change: NM_00 Alternate Allele: T 	7:55249012 Reference inical Significa ce: Stop Gained Nucle Reference Allele: C <i>J</i> ce: Missense Variant I J4333.4:c.1799T>A G	e Allele: C Alternate Allele: CGGT nce ** cotide Change: NM_000038.5:c.4348C>T Genomic Alternate Allele: T Protein Change: NP_004324.2:p.(Val600Glu) ienomic Position: chr7:140453136 Reference Allele: A
(Asp770_Asn771insGt Cancer Mutation Detected Variants APC p.(Arg1450Ter) BRAF p.(V600E) *Additional information in Informatii ** Accuracy of DNA tumor profiling Informatics Details section	 VÄF: 3.57% Consequen Genomic Position: chr7 Is with Potential Cli TMB: 3.2 Mut/Mb Details Type: SNV VAF: 11.39% Consequenc Position: chr5:112175639 Type: SNV VAF: 31.09% Consequenc Nucleotide Change: NM_00 Alternate Allele: T 	7:55249012 Reference inical Significa :e: Stop Gained Nucle Reference Allele: C J :e: Missense Variant I J4333.4:c.1799T>A G :requency has not been es	e Allele: C Alternate Allele: CGGT nce ** cotide Change: NM_000038.5:c.4348C>T Genomic Alternate Allele: T Protein Change: NP_004324.2:p.(Val600Glu) ienomic Position: chr7:140453136 Reference Allele: A

The TSO Comprehensive results report

Detection	gnostics Genomic Positions wit		-	
	n Diagnostic intended uses that were evalua			
No positions with ins	sufficient coverage were detected			
Companion	Diagnostics Intended Uses E	Evaluated		
	des a column that indicates whether that C not evaluated, a reason is listed. The colum			
an intended use was specific.	not evaluated, a reason is listed. The column			
	Biomarkers	Therapy	CDx Intended Use Evaluated	Comment

The TSO Comprehensive results report when a CDx is not detected

If a companion diagnostic result is not detected, the TSO Comprehensive results report will contain the same reporting fields as described on pages 3 and 4 of this document. Instead of listing a possible CDx, the section entitled "Companion Diagnostic Results" will indicate that "No Companion Diagnostic biomarkers for the stated sample tumor type were detected."





You've always had what it takes. **Now you have** what you need.

Be the change you want to see in cancer care. Introducing the FDA approved TruSight Oncology Comprehensive IVD Assay.

Learn more

TruSight Oncology Comprehensive

Reference

1. Analysis provided courtesy of Velsera based on the TSO Comprehensive Knowledge Base.

Intended Use Statement

TruSight[®] Oncology Comprehensive is a qualitative *in vitro* diagnostic test that uses targeted next-generation sequencing to detect variants in 517 genes using nucleic acids extracted from formalin-fixed, paraffin-embedded (FFPE) tumor tissue samples from cancer patients with solid malignant neoplasms using the Illumina[®] NextSeq[®] 550Dx Instrument. The test can be used to detect single nucleotide variants, multi-nucleotide variants, insertions, and deletions from DNA, and fusions in 24 genes and splice variants in one gene from RNA. The test also reports a Tumor Mutational Burden (TMB) score.

The test is intended to be used as a companion diagnostic to identify cancer patients who may benefit from treatment with the targeted therapies listed in Table 1, in accordance with the approved therapeutic product labeling.

In addition, the test is intended to provide tumor profiling information for use by qualified health care professionals in accordance with professional guidelines in oncology for patients with solid malignant neoplasms. Genomic findings other than those listed in Table 1 of the intended use statement are not conclusive or prescriptive for labeled use of any specific therapeutic product.

Table 1: Companion Diagnostic Indications

Tumor Type	Biomarker(s) Detected	Therapy
Solid Tumors	NTRK1/2/3 fusions	VITRAKVI® (larotrectinib)
Non-Small Cell Lung Cancer (NSCLC)	RET fusions	RETEVMO [®] (selpercatinib)

illumina

1.800.809.4566 toll-free (US) | +1.858.202.4566 tel techsupport@illumina.com | www.illumina.com

© 2024 Illumina, Inc. All rights reserved. All trademarks are the property of Illumina, Inc. or their respective owners. For specific trademark information, see www.illumina.com/company/legal.html. M-AMR-01525 v1.0