EXAMPLE REPORT

TruSight™ Oncology Comprehensive (EU)

Clinical report example

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Clinically actionable report

TruSight Oncology (TSO) Comprehensive (EU) makes comprehensive genomic profiling (CGP) accessible to laboratories and health care professionals, 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 (EU) clinical report. This report is automatically generated on the NextSeq™ 550Dx System during the TSO Comprehensive (EU) workflow. The resulting streamlined clinical report:

- Is easy to read, clearly indicating patient sample information and genomic findings
- Identifies variants that have evidence of clinical significance (therapeutic, prognostic, or diagnostic) based on information in EMA-approved drug labels, FDA-approved drug labels, ESMO Clinical Practice Guidelines, NCCN Guidelines, or ASCO Clinical Practice Guidelines for the patient's tumor type, as specified by the Knowledge Base[1] and supporting rules engine
- Provides clinically actionable data that can help inform therapy decisions according to clinical guidelines

Important facts and benefits of the expertly curated Knowledge Base[1] supporting the TSO Comprehensive (EU) clinical report

Content evaluated and approved by expert oncologists and pathologists

ISO 13485–compliant evidence curation workflow produces IVD-compliant Knowledge Base

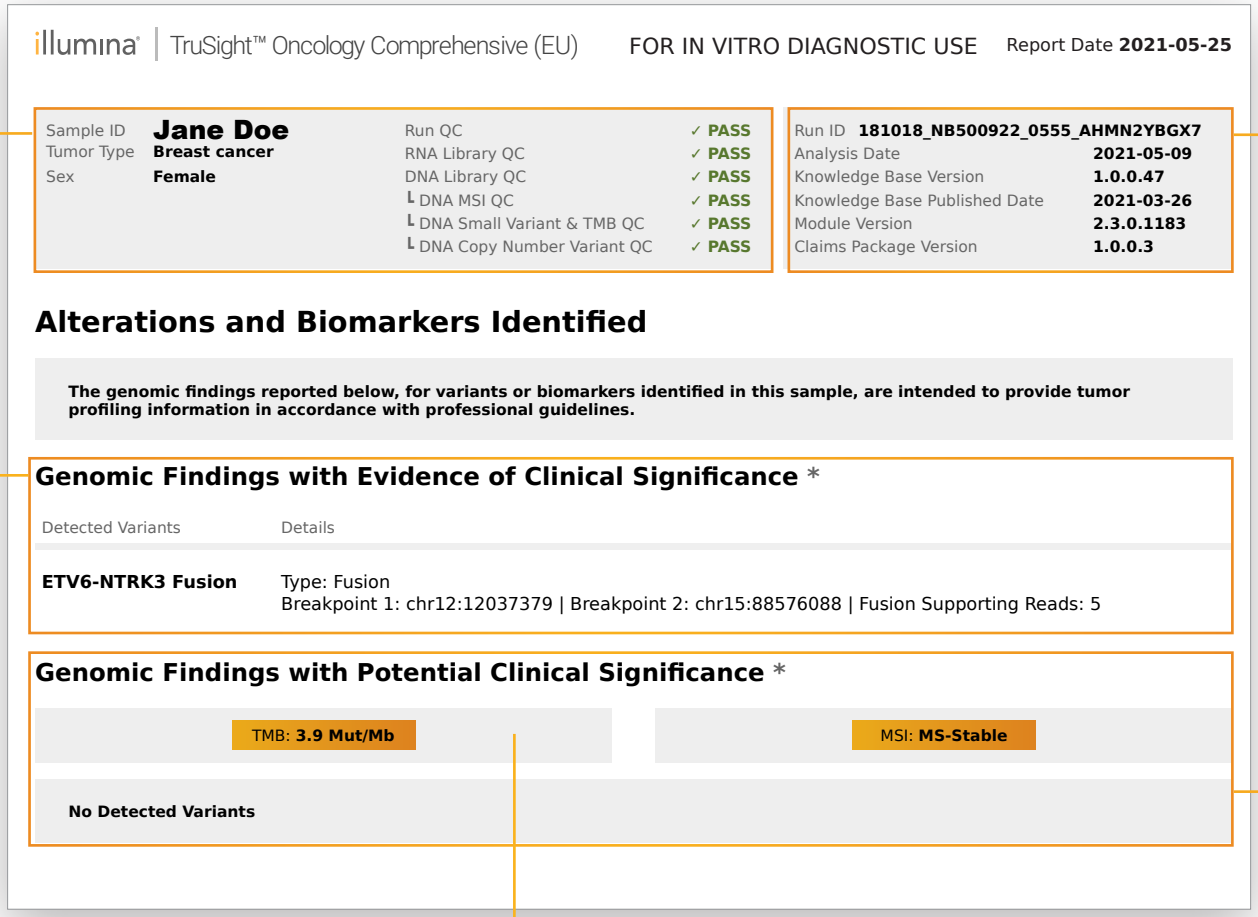
Inclusive data scope and maintenance provide comprehensive coverage

Expertly curated Knowledge Base, with rules engine, accurately identifies and tiers variants in report

The TSO Comprehensive (EU) clinical report

Patient sample information: sample ID, tumor type, gender, QC analysis

Assay information: run ID, Knowledge Base, and software details



illumina | TruSight™ Oncology Comprehensive (EU) FOR IN VITRO DIAGNOSTIC USE Report Date **2021-05-25**

Sample ID	**Jane Doe**	Run QC	✓ **PASS**
Tumor Type	**Breast cancer**	RNA Library QC	✓ **PASS**
Sex	**Female**	DNA Library QC	✓ **PASS**
		└ DNA MSI QC	✓ **PASS**
		└ DNA Small Variant & TMB QC	✓ **PASS**
		└ DNA Copy Number Variant QC	✓ **PASS**

Run ID	**181018_NB500922_0555_AHMN2YBGX7**
Analysis Date	**2021-05-09**
Knowledge Base Version	**1.0.0.47**
Knowledge Base Published Date	**2021-03-26**
Module Version	**2.3.0.1183**
Claims Package Version	**1.0.0.3**

Alterations and Biomarkers Identified

The genomic findings reported below, for variants or biomarkers identified in this sample, are intended to provide tumor profiling information in accordance with professional guidelines.

Genomic Findings with Evidence of Clinical Significance *

Detected Variants	Details
ETV6-NTRK3 Fusion	Type: Fusion Breakpoint 1: chr12:12037379 | Breakpoint 2: chr15:88576088 | Fusion Supporting Reads: 5

Genomic Findings with Potential Clinical Significance *

TMB: **3.9 Mut/Mb** MSI: **MS-Stable**

No Detected Variants

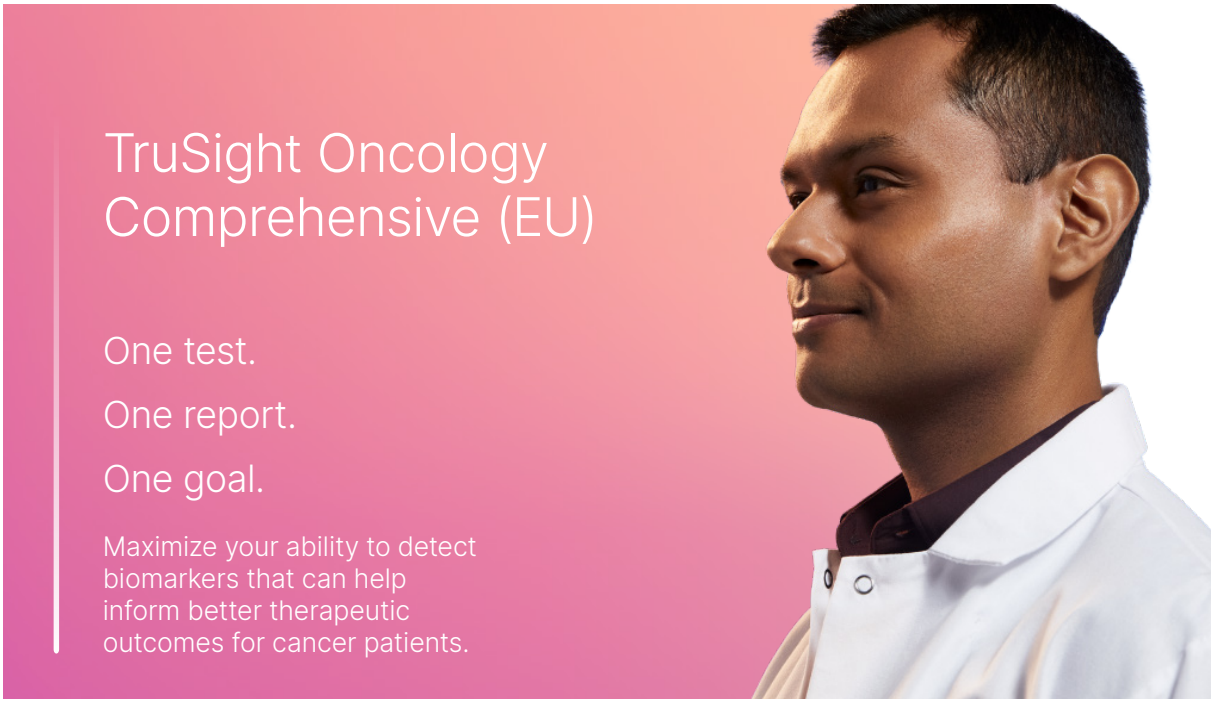
Genomic Findings with Evidence of Clinical Significance. According to the Knowledge Base,[1] these findings meet at least one of the following criteria:
- Clinical practice guideline in the patient tumor type
- Drug label in the patient tumor type

Variants identified in both sections are potentially actionable

Genomic Findings with Potential Clinical Significance. According to the Knowledge Base,[1] these findings meet at least one of the following criteria:
- Clinical practice guideline in another tumor type
- Drug label in another tumor type
- Show potential clinical significance in primary literature in the patient tumor type
- Clinical trial enrollment in the patient tumor type

Status of key emerging immunotherapy biomarkers: TMB and MSI

The remainder of the report includes test and informatics details. Not shown.



Learn more

TruSight Oncology Comprehensive (EU), illumina.com/tsocomprehensive

Reference

1. Analysis provided courtesy of PierianDx based on the TSO Comprehensive (EU) Knowledge Base. Current as of July 2021.

Intended use statement

TruSight Oncology Comprehensive (EU) is an 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, deletions, and gene amplifications from DNA, and gene fusions and splice variants from RNA. The test also reports a Tumor Mutational Burden (TMB) score and Microsatellite Instability (MSI) status. The test is intended to provide tumor profiling information for use by qualified health care professionals in accordance with professional guidelines, and is not conclusive or prescriptive for labeled use of any specific therapeutic product.

Abbreviations: ASCO, American Society of Clinical Oncology; EMA, European Medicines Agency; ESMO, European Society for Medical Oncology; FDA, Federal Drug Administration; ISO, International Organization for Standardization; IVD, *in vitro* diagnostic; NCCN, National Comprehensive Cancer Network

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