

A new era for better patient outcomes

Introducing
TruSight™ Oncology
Comprehensive (EU)

illumina®



Imagine a better oncology

diagnostic environment

Current oncology patient care relies on multiple biomarker tests. This requires strict management of a limited patient biopsy sample as the iterative single-gene testing approach can lead to tissue depletion and repeat biopsies.¹⁻³ TruSight Oncology Comprehensive (EU) (TSO Comprehensive (EU)) is a comprehensive genomic profiling (CGP) solution that consolidates numerous individual tests into a single panel, minimizing the amount of sample needed and maximizing the ability to potentially identify an actionable alteration for better patient outcomes.

Comprehensive coverage

Clinical confidence

Conventional oncology testing approaches supply limited information that does not address all biomarkers for approved and emerging targeted therapies and immunotherapies. When treatment-relevant biomarkers are not evaluated, patients may only receive traditional, nonmatched regimens due to a lack of better options. With TSO Comprehensive (EU), patients can receive a CGP test that may increase their chances of being genomically matched with a potentially more effective therapy, leading to an improved outcome.⁴⁻⁹

A single CGP test can identify more clinically relevant variants than conventional tests, such as single-gene tests and hotspot NGS panels,^{2,9-12} while saving time and preserving biopsy specimen. CGP enables detection of DNA plus RNA variants and complex biomarker signatures, such as tumor mutational burden (TMB) and microsatellite instability (MSI), generating a comprehensive genomic profile of the patient's tumor and increasing confidence in ensuring the right treatment decisions.

The biomarker content
of TruSight Oncology
Comprehensive (EU)
covers :



49

Clinical
practice
guidelines



117

Drug
labels



680

European
trials

Help inform targeted therapies for better patient outcomes

TSO Comprehensive (EU) content includes critical biomarkers with known cancer associations as indicated in drug labels, European Society For Medical Oncology (ESMO) recommendations, and clinical trials for multiple solid tumor types.¹³ The results of TSO Comprehensive (EU) can help inform therapy decisions according to clinical guidelines.

In addition, TSO Comprehensive (EU) is currently indicated as a companion diagnostic (CDx) test to identify cancer patients with solid tumors who are positive for *NTRK1*, *NTRK2*, or *NTRK3* gene fusions for treatment with VITRAKVI (larotrectinib) in accordance with the approved therapeutic labeling.¹⁴⁻¹⁶ An extensive pipeline of additional CDx indications that will help identify patients most likely to respond to specific targeted and immunotherapies is currently under development.¹⁴⁻¹⁷

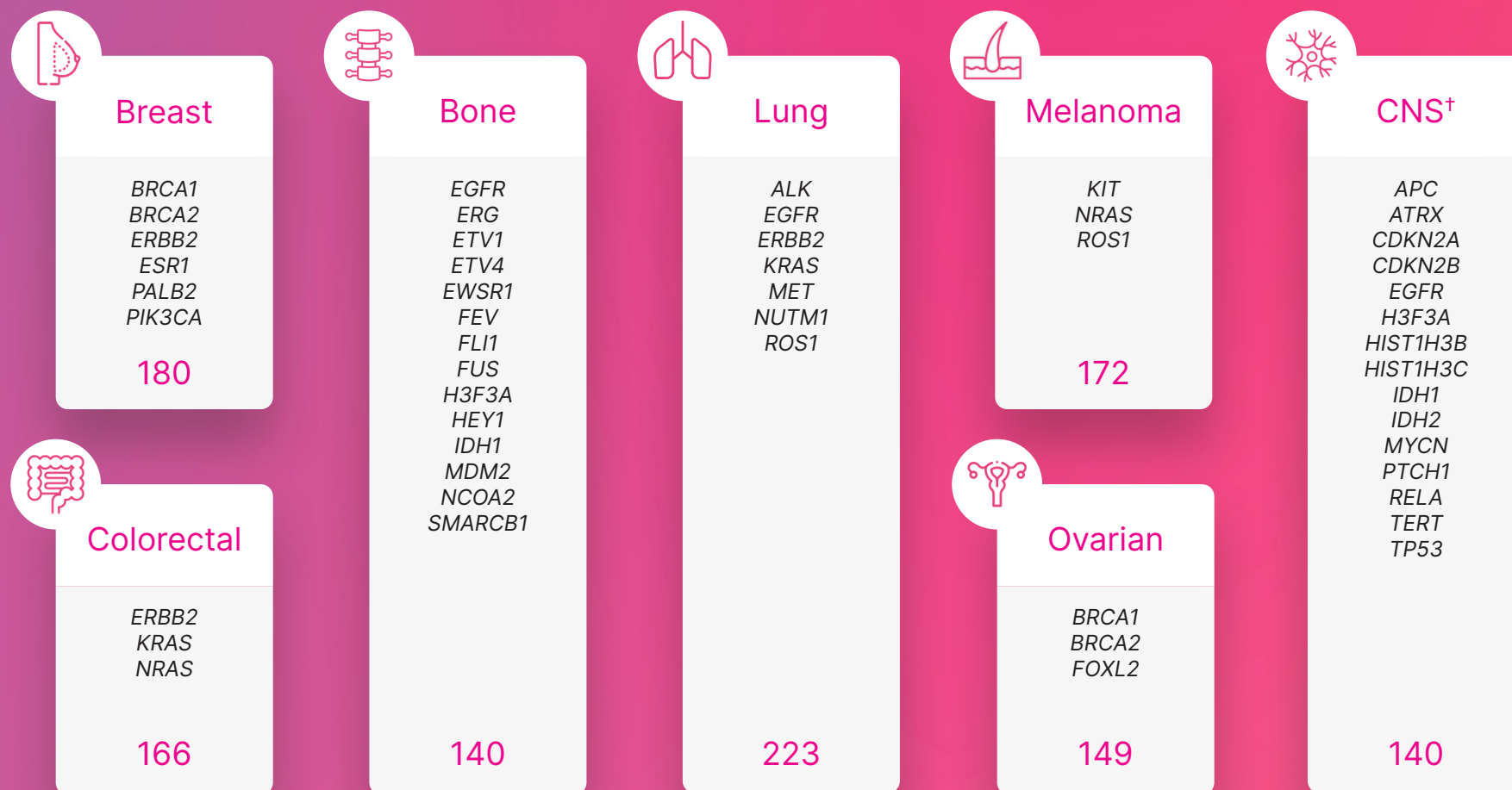


One test for multiple solid tumor types

Key actionable biomarkers covered for multiple solid tumor types.*

Genes listed are tumor type-specific biomarkers of clinical significance. Numbers indicate additional genes in TSO Comprehensive (EU) that are biomarkers of potential clinical significance.

PAN-CANCER: BRAF, NTRK1, NTRK2, NTRK3, RET, MSI, TMB



* The TruSight Oncology Comprehensive (EU) panel includes over 500 genes. To see the full gene list, view the product data sheet on www.illumina.com/tsocomprehensive.



Prostate

AR
ATM
BARD1
BRCA1
BRCA2
BRIP1
CDK12
CHEK1
CHEK2
FANCL
FGFR2
FGFR3
PALB2
PTEN
RAD51B
RAD51C
RAD51D
RAD54L

151



Thyroid

HRAS
KRAS
NRAS
TERT

165



Uterine & cervical

BRCA2
EPC1
ERBB2
ESR1
FOXO1
GREB1
JAZF1
NCOA2
NCOA3
NUTM2A
NUTM2B
PAX3
PAX7
PHF1
POLE
SMARCA4
SUZ12
TP53
YWHAE

138



Other solid tumors

ALK	CREB3L2	FUS	PALB2	TCF12
APC	CSF1	GLI1	PATZ1	TERT
ARID1A	CTNNB1	HEY1	PAX3	TFE3
ASPSCR1	DDIT3	HGF	PAX7	TFEB
ATF1	DDX3X	HMGA2	PDGFB	TFG
ATIC	DNAJB1	IDH1	PDGFRA	TP53
BAP1	DUX4	KRAS	PRKACA	TPM3
BCOR	EED	LEUTX	PRKD1	TPM4
BRCA1	EGFR	MAML3	RANBP2	TRAF7
BRCA2	ERBB2	MDM2	ROS1	TSPAN31
CAMTA1	ERG	MYB	SDHA	VGLL2
CARS	ETV1	MYOD1	SDHB	WT1
CCNB3	ETV4	NAB2	SDHC	WWTR1
CDK4	ETV6	NCOA2	SDHD	YAP1
CDKN2A	EWSR1	NF1	SMARCB1	YWHAE
CIC	FEV	NFATC2	SS18	ZC3H7B
CITED2	FGFR2	NFIB	SSX1	
CLTC	FGFR3	NR4A3	SSX2	
COL1A1	FLI1	NRAS	SSX4	
COL6A3	FOXL2	NUTM1	STAT6	
CREB1	FOXO1	NUTM2A	SUZ12	
CREB3L1	FOXO4	NUTM2B	TAF15	

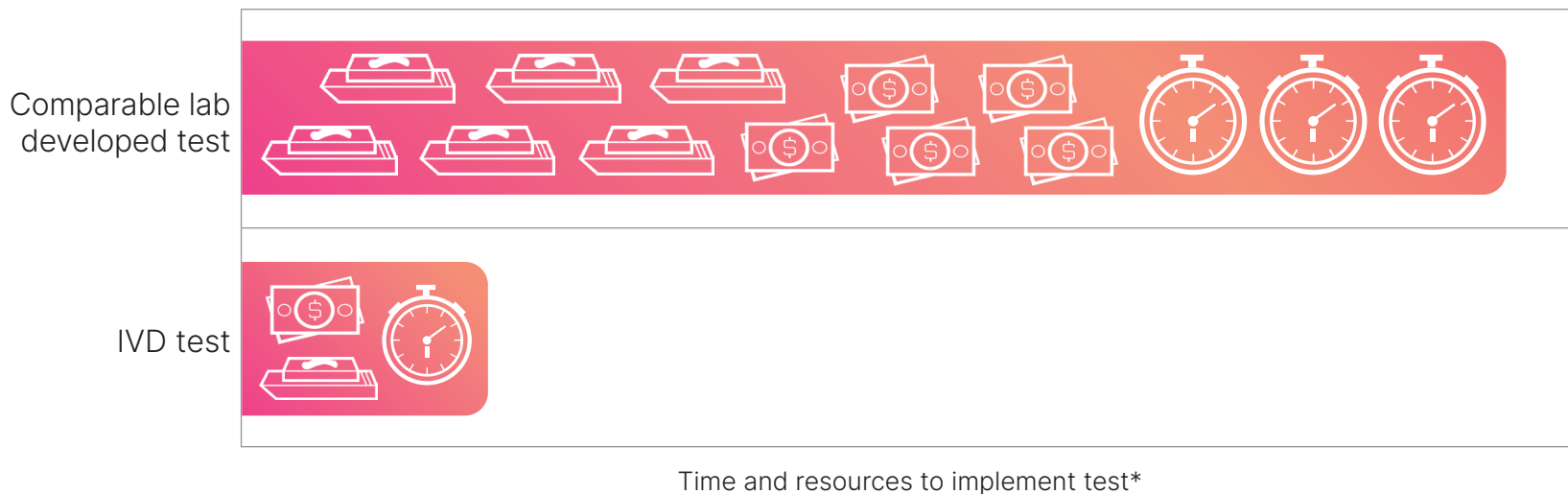
152

Become a precision medicine provider

Offer CGP testing in your institution

Bring CGP testing into your lab with TSO Comprehensive (EU) and enjoy the benefits of being a precision medicine provider. Offering the test in your institution allows you to better manage sample logistics, keep data internally for future studies, affect sample QC success rates, and, ultimately, the rate of biomarker-informed cases.

TSO Comprehensive (EU) is a CE-marked IVD solution that is validated by Illumina. It requires ISO 15189 performance verification, which is less burdensome than the validation required by a test developed in the lab.



*Illustrative example; not meant to provide a precise comparison of time and resources.



Maximize sample
and data



Have more meaningful
discussions with the
oncologist



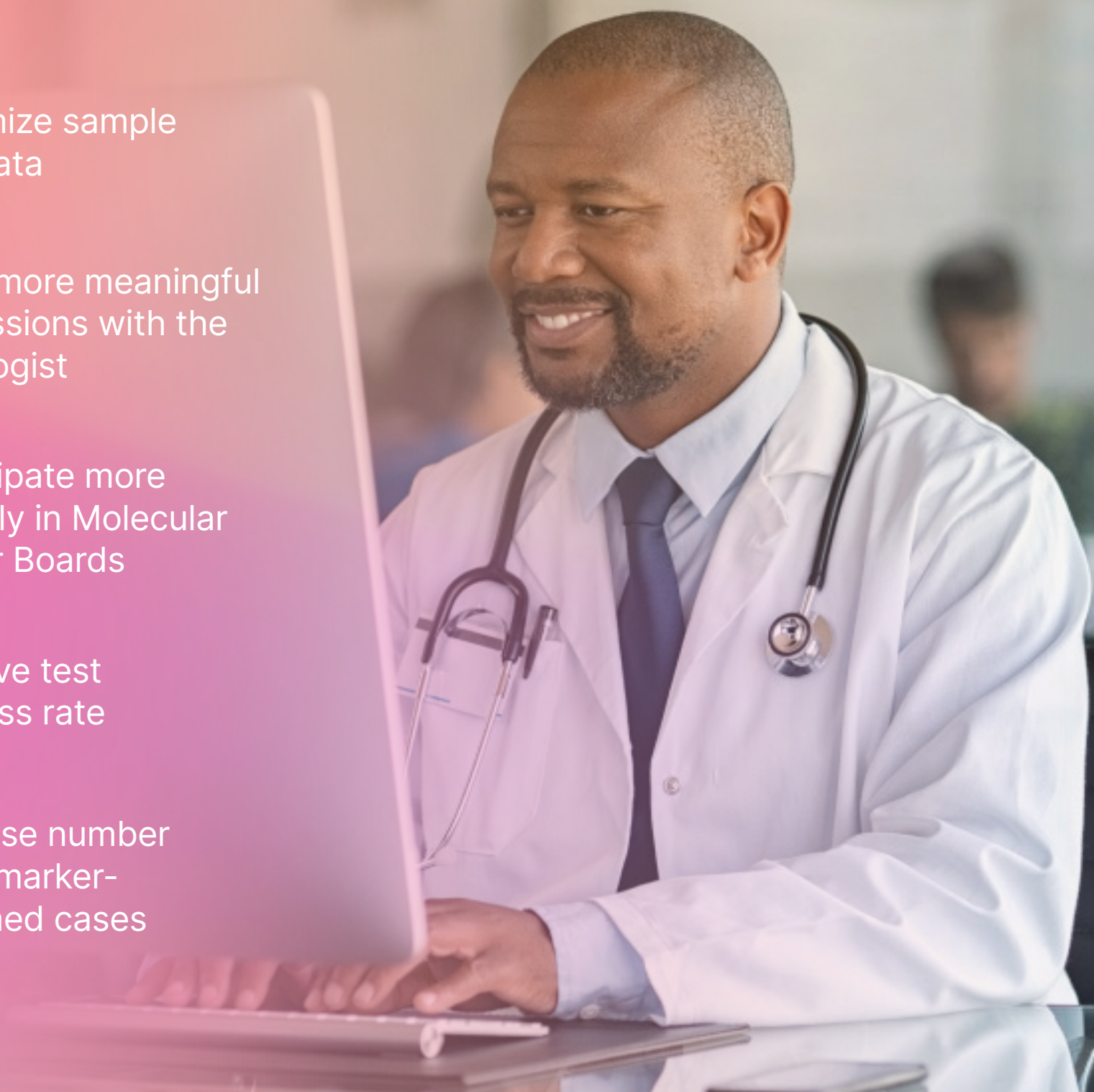
Participate more
actively in Molecular
Tumor Boards



Improve test
success rate



Increase number
of biomarker-
informed cases



From sample to report in just 4 to 5 days

Rely on a CE-marked, IVD, sample-to-answer solution that can be implemented easily, empowering you to generate test results quickly and accurately.

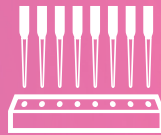
Fully automated sequencing and data analysis



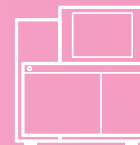
Sample specimen



DNA and RNA extraction



Library preparation



Sequencing to clinical report



Easy-to-read clinical IVD report

Fully automated workflow on-instrument

Sequencing

Base calling and QC

Variant calling

Interpretation

Final report

360 degree support from day one

Rest assured that you will receive our comprehensive level of support with TruSight Oncology Comprehensive (EU):



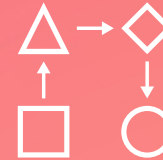
Onboarding plans



Training and certification



Marketing and educational tools through our VIP portal



Verification protocols



Ongoing technical support

illumina Lighthouse VIP portal

Easily find resources to help you educate your customers on the benefits of comprehensive genomic profiling.

cgplighthouse.illumina.com

TruSight Oncology Comprehensive (EU)

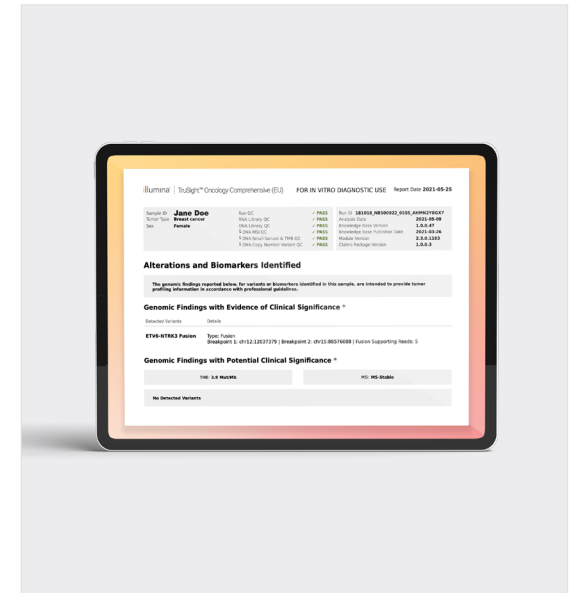
A sample-to-answer solution



Library prep reagents
CE-marked IVD reagents in a kitted format for simple test implementation and reliable results.



NextSeq™ 550Dx System
A CE-marked IVD instrument that delivers the consistency and reliability clinical labs need.



Clinical IVD report
Actionable biomarker findings displayed in an easy-to-read IVD report.

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Intended use

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, multinucleotide 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 as a companion diagnostic to identify cancer patients for treatment with the targeted therapies [see [Trusight Oncology Comprehensive \(EU\) package insert](#)], in accordance with the approved therapeutic product labeling. In addition, the test is intended to provide tumor profiling information for use by qualified healthcare professionals in accordance with professional guidelines and is not conclusive or prescriptive for labeled use of any specific therapeutic product.

Contact your Illumina sales representative
to find out more about TruSight Oncology
Comprehensive (EU)

www.illumina.com/tsocomprehensive

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

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