

# TruSight™ Oncology Comprehensive (EU)

Learn more about this CE-  
marked *in vitro* diagnostic,  
next-generation sequencing  
solution for comprehensive  
genomic profiling



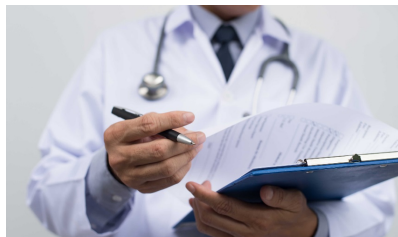
## General information

### What is TruSight Oncology Comprehensive (EU)?

As a global leader in next-generation sequencing (NGS) and microarray-based solutions, Illumina is dedicated to improving human health by unlocking the power of the genome. Illumina continues to innovate by offering TruSight Oncology Comprehensive (EU), a CE-marked *in vitro* diagnostic (IVD), pan-cancer comprehensive genomic profiling (CGP) panel. TruSight Oncology Comprehensive (EU) can generate a broad molecular profile of solid tumor patient samples, including formalin-fixed, paraffin-embedded (FFPE) tissue, maximizing a lab's ability to find actionable alterations that can help inform therapy decisions according to clinical guidelines.

Additional key points:

- TruSight Oncology Comprehensive (EU) can be implemented easily in house, features a streamlined workflow that proceeds from sample to final clinical report in 4-5 days, and requires as few as five FFPE slides
- TruSight Oncology Comprehensive (EU) reliably detects all DNA and RNA variant categories, including single nucleotide variants (SNVs), insertions/deletions (indels), amplifications, fusions, and splice variants and enables analysis of genomic signatures such as tumor mutational burden (TMB) and microsatellite instability (MSI)
- TruSight Oncology Comprehensive (EU) is 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
- A roadmap of additional CDx claims will add multiple indications linked to breakthrough therapies that can improve patient outcomes



Generate a CGP report for a patient sample

- Detect DNA plus RNA variants and genomic signatures for multiple solid tumor types, generate a CGP report for a patient's tumor, and increase confidence in correct treatment decisions



Enable targeted therapies and clinical trials

- Leverage content that includes key biomarkers associated with drug labels, [ESMO](#) guidelines, and clinical trials for multiple solid tumor types
- Deliver results that inform therapy decisions according to clinical guidelines



Perform IVD testing in-house

- Implement a streamlined workflow, going from sample to report in 4-5 days
- Offer precision oncology research, keep data in your institution, and avoid losing samples to send-out services

### Who is the target customer?

The target customers for TruSight Oncology Comprehensive (EU) are molecular pathologists and lab directors in European countries who routinely run solid tumor tissue biomarker tests to aid oncologists with therapy selection for cancer patients. Types of institutions include:

- Academic medical centers
- Large to medium hospitals
- Independent commercial labs

TruSight Oncology Comprehensive (EU) will be available in the following countries:

- Austria
- Belgium
- Bulgaria
- Cyprus
- Czech Republic
- Denmark
- Estonia
- Finland
- France
- Germany
- Iceland
- Ireland
- Israel
- Italy
- Liechtenstein
- Luxembourg
- Malta
- Netherlands
- Norway
- Poland
- Spain
- Sweden
- Switzerland
- UK
- Greece
- Portugal
- Romania
- Slovenia
- South Africa
- UAE
- Qatar

### What are the IVD claims?

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 therapy 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 healthcare professionals in accordance with professional guidelines and is not conclusive or prescriptive for labeled use of any specific therapeutic product.

Table 1: CDx indication

Tumor type	Biomarkers	Targeted therapy
Solid tumors	<i>NTRK1, NTRK2, NTRK3</i> gene fusions	VITRAKVI (larotrectinib)

Read the TruSight Oncology Comprehensive Package Insert to learn more, [support.illumina.com/sequencing/sequencing\\_kits/trusight-oncology-comprehensive.html](https://support.illumina.com/sequencing/sequencing_kits/trusight-oncology-comprehensive.html)

### What gene/biomarker content is included?

TruSight Oncology Comprehensive (EU) includes key biomarkers in clinical guidelines, drug labels, and clinical trials across multiple solid tumor types and histologies ([Figure 1](#)). Content includes small DNA variants ([Table 2](#)) as well as fusions (RNA), splice variants (RNA), amplifications (DNA), and complex genomic signatures ([Table 3](#)). These lists are based on content that has been validated as part of the Illumina IVD regulatory submission.












Pan-cancer: <i>BRAF, NTRK1, NTRK2, NTRK3, RET, MSI, TMB</i>													
Genes with biomarkers of clinical significance*											Genes with biomarkers of potential clinical significance†		
	<b>Breast</b>	<i>BRCA1</i>	<i>BRCA2</i>	<i>ERBB2</i>	<i>ESR1</i>	<i>PALB2</i>	<i>PIK3CA</i>					180	
	<b>Colorectal</b>	<i>ERBB2</i>	<i>KRAS</i>	<i>NRAS</i>								166	
	<b>Bone</b>	<i>EGFR</i>	<i>ERG</i>	<i>ETV1</i>	<i>ETV4</i>	<i>EWSR1</i>	<i>FEV</i>	<i>FLI1</i>	<i>FUS</i>	<i>H3F3A</i>	<i>HEY1</i>	<i>IDH1</i>	140
	<b>Lung</b>	<i>ALK</i>	<i>EGFR</i>	<i>ERBB2</i>	<i>KRAS</i>	<i>MET</i>	<i>NUTM1</i>	<i>ROS1</i>					223
	<b>Melanoma</b>	<i>KIT</i>	<i>NRAS</i>	<i>ROS1</i>									172
	<b>Ovarian</b>	<i>BRCA1</i>	<i>BRCA2</i>	<i>FOXL2</i>									149
	<b>CNS‡</b>	<i>APC</i>	<i>ATRX</i>	<i>CDKN2A</i>	<i>CDKN2B</i>	<i>EGFR</i>	<i>H3F3A</i>	<i>HIST1H3B</i>	<i>HIST1H3C</i>	<i>IDH1</i>	<i>IDH2</i>	<i>MYCN</i>	140
	<b>Prostate</b>	<i>AR</i>	<i>ATM</i>	<i>BARD1</i>	<i>BRCA1</i>	<i>BRCA2</i>	<i>BRIP1</i>	<i>CDK12</i>	<i>CHEK1</i>	<i>CHEK2</i>	<i>FANCL</i>	<i>FGFR2</i>	151
	<b>Thyroid</b>	<i>HRAS</i>	<i>KRAS</i>	<i>NRAS</i>	<i>TERT</i>								165
	<b>Uterine &amp; cervical</b>	<i>BRCA2</i>	<i>EPC1</i>	<i>ERBB2</i>	<i>ESR1</i>	<i>FOXO1</i>	<i>GREB1</i>	<i>JAZF1</i>	<i>NCOA2</i>	<i>NCOA3</i>	<i>NUTM2A</i>	<i>NUTM2B</i>	138
	<b>Other solid tumors</b>	<i>ALK</i>	<i>APC</i>	<i>ARID1A</i>	<i>ASPSCR1</i>	<i>ATF1</i>	<i>ATIC</i>	<i>BAP1</i>	<i>BCOR</i>	<i>BRCA1</i>	<i>BRCA2</i>	<i>CAMTA1</i>	152
		<i>CARS</i>	<i>CENB3</i>	<i>CDK4</i>	<i>CDKN2A</i>	<i>CIC</i>	<i>CITED2</i>	<i>CLTC</i>	<i>COL1A1</i>	<i>COL6A3</i>	<i>CREB1</i>	<i>CREB3L1</i>	
		<i>CREB3L2</i>	<i>CSF1</i>	<i>CTNBN1</i>	<i>DDIT3</i>	<i>DDX3X</i>	<i>DNAJB1</i>	<i>DUX4</i>	<i>EED</i>	<i>EGFR</i>	<i>ERBB2</i>	<i>ERG</i>	
		<i>ETV1</i>	<i>ETV4</i>	<i>ETV6</i>	<i>EWSR1</i>	<i>FEV</i>	<i>FGFR2</i>	<i>FGFR3</i>	<i>FLI1</i>	<i>FOXL2</i>	<i>FOXO1</i>	<i>FOXO4</i>	
		<i>FUS</i>	<i>GLI1</i>	<i>HEY1</i>	<i>HGF</i>	<i>HMGA2</i>	<i>IDH1</i>	<i>KRAS</i>	<i>LEUTX</i>	<i>MAML3</i>	<i>MDM2</i>	<i>MYB</i>	
		<i>MYOD1</i>	<i>NAB2</i>	<i>NCOA2</i>	<i>NF1</i>	<i>NFATC2</i>	<i>NFIB</i>	<i>NR4A3</i>	<i>NRAS</i>	<i>NUTM1</i>	<i>NUTM2A</i>	<i>NUTM2B</i>	
		<i>PALB2</i>	<i>PATZ1</i>	<i>PAX3</i>	<i>PAX7</i>	<i>PDGFB</i>	<i>PDGFRA</i>	<i>PRKACA</i>	<i>PRKD1</i>	<i>RANBP2</i>	<i>ROS1</i>	<i>SDHA</i>	
		<i>SDHB</i>	<i>SDHC</i>	<i>SDHD</i>	<i>SMARCB1</i>	<i>SS18</i>	<i>SSX1</i>	<i>SSX2</i>	<i>SSX4</i>	<i>STAT6</i>	<i>SUZ12</i>	<i>TAF15</i>	
		<i>TCF12</i>	<i>TERT</i>	<i>TFE3</i>	<i>TFEB</i>	<i>TFG</i>	<i>TP53</i>	<i>TPM3</i>	<i>TPM4</i>	<i>TRAF7</i>	<i>TSPAN31</i>	<i>VGLL2</i>	
		<i>WT1</i>	<i>WWTR1</i>	<i>YAP1</i>	<i>YWHAE</i>	<i>ZC3H7B</i>							

Figure 1: Key actionable biomarkers—Genes listed represent a subset of genes present in the TSO Comprehensive (EU) panel. Content analysis provided by Velsera based on IVD software Knowledge Base v8.5 (February 2023).

\* Genes linked to current drug labels or guidelines.

† Based on evidence in scientific literature, presence in clinical trials, or linked to labels in other histologies.

‡ CNS, central nervous system.

Table 2: TruSight Oncology Comprehensive (EU) panel content

Small variants - 517 genes (from DNA)											
ABL1	BCR	CREBBP	ERBB4	FGFR4	HIST1H3G	KEAP1	MST1	PDCD1	PTPRS	SH2D1A	TFRC
ABL2	BIRC3	CRKL	ERCC1	FH	HIST1H3H	KEL	MST1R	PDCD1LG2	PTPRT	SHQ1	TGFBR1
ABRAXAS1	BLM	CRLF2	ERCC2	FLCN	HIST1H3I	KIF5B	MTOR	PDGFRA	QKI	SLIT2	TGFBR2
ACVR1	BMPR1A	CSF1R	ERCC3	FLI1	HIST1H3J	KIT	MUTYH	PDGFRB	RAB35	SLX4	TMEM127
ACVR1B	BRAF	CSF3R	ERCC4	FLT1	HIST2H3A	KLF4	MYB	PDK1	RAC1	SMAD2	TMPRSS2
ADGRA2	BRCA1	CSNK1A1	ERCC5	FLT3	HIST2H3C	KLHL6	MYC	PDPK1	RAD21	SMAD3	TNFAIP3
AKT1	BRCA2	CTCF	ERG	FLT4	HIST2H3D	KMT2A	MYCL	PGR	RAD50	SMAD4	TNFRSF14
AKT2	BRD4	CTLA4	ERRF1	FOXA1	HIST3H3	KRAS	MYCN	PHF6	RAD51	SMARCA4	TOP1
AKT3	BRIP1	CTNNA1	ESR1	FOXL2	HNF1A	LAMP1	MYD88	PHOX2B	RAD51B	SMARCB1	TOP2A
ALK	BTG1	CTNBN1	ETS1	FOXO1	HNRNPK	LATS1	MYOD1	PIK3C2B	RAD51C	SMARCD1	TP53
ALOX12B	BTK	CUL3	ETV1	FOXP1	HOXB13	LATS2	NAB2	PIK3C2G	RAD51D	SMC1A	TP63
AMER1	CALR	CUX1	ETV4	FRS2	HRAS	LMO1	NBN	PIK3C3	RAD52	SMC3	TRAF2
ANKRD11	CARD11	CXCR4	ETV5	FUBP1	HSD3B1	LRP1B	NCOA3	PIK3CA	RAD54L	SMO	TRAF7
ANKRD26	CASP8	CYLD	ETV6	FYN	HSP90AA1	LYN	NCOR1	PIK3CB	RAF1	SNCAIP	TSC1
APC	CBFB	DAXX	EWSR1	GABRA6	ICOSLG	LZTR1	NEGR1	PIK3CD	RANBP2	SOCS1	TSC2
AR	CBL	DCUN1D1	EZH2	GATA1	ID3	MAGI2	NF1	PIK3CG	RARA	SOX10	TSHR
ARAF	CCND1	DDR2	FAM46C	GATA2	IDH1	MALT1	NF2	PIK3R1	RASA1	SOX17	U2AF1
ARFRP1	CCND2	DDX41	FANCA	GATA3	IDH2	MAP2K1	NFE2L2	PIK3R2	RB1	SOX2	VEGFA
ARID1A	CCND3	DHX15	FANCC	GATA4	IFNGR1	MAP2K2	NFKBIA	PIK3R3	RBM10	SOX9	VHL
ARID1B	CCNE1	DICER1	FANCD2	GATA6	IGF1	MAP2K4	NKX2-1	PIM1	RECQL4	SPEN	VTCN1
ARID2	CD274	DIS3	FANCE	GEN1	IGF1R	MAP3K1	NKX3-1	PLCG2	REL	SPOP	WISP3
ARID5B	CD276	DNAJB1	FANCF	GID4	IGF2	MAP3K13	NOTCH1	PLK2	RET	SPTA1	WT1
ASXL1	CD74	DNMT1	FANCG	GLI1	IKBKE	MAP3K14	NOTCH2	PMAIP1	RHEB	SRC	XIAP
ASXL2	CD79A	DNMT3A	FANCI	GNA11	IKZF1	MAP3K4	NOTCH3	PMS1	RHOA	SRSF2	XPO1
ATM	CD79B	DNMT3B	FANCL	GNA13	IL10	MAPK1	NOTCH4	PMS2	RICTOR	STAG1	XRCC2
ATR	CDC73	DOT1L	FAS	GNAQ	IL7R	MAPK3	NPM1	PNRC1	RIT1	STAG2	YAP1
ATRX	CDH1	E2F3	FAT1	GNAS	INHA	MAX	NRAS	POLD1	RNF43	STAT3	YES1
AURKA	CDK12	EED	FBXW7	GPS2	INHBA	MCL1	NRG1	POLE	ROS1	STAT4	ZBTB2
AURKB	CDK4	EGFL7	FGF1	GREM1	INPP4A	MDC1	NSD1	PPARG	RPS6KA4	STAT5A	ZBTB7A
AXIN1	CDK6	EGFR	FGF10	GRIN2A	INPP4B	MDM2	NTRK1	PPM1D	RPS6KB1	STAT5B	ZFHX3
AXIN2	CDK8	EIF1AX	FGF14	GRM3	INSR	MDM4	NTRK2	PPP2R1A	RPS6KB2	STK11	ZNF217
AXL	CDKN1A	EIF4A2	FGF19	GSK3B	IRF2	MED12	NTRK3	PPP2R2A	RPTOR	STK40	ZNF703
B2M	CDKN1B	EIF4E	FGF2	H3F3A	IRF4	MEF2B	NUP93	PPP6C	RUNX1	SUFU	ZRSR2
BAP1	CDKN2A	ELOC	FGF23	H3F3B	IRS1	MEN1	NUTM1	PRDM1	RUNX1T1	SUZ12	
BARD1	CDKN2B	EML4	FGF3	H3F3C	IRS2	MET	PAK1	PREX2	RYBP	SYK	
BBC3	CDKN2C	EMSY	FGF4	HGF	JAK1	MGA	PAK3	PRKAR1A	SDHA	TAF1	
BCL10	CEBPA	EP300	FGF5	HIST1H1C	JAK2	MITF	PAK5	PRKCI	SDHAF2	TBX3	
BCL2	CENPA	EPCAM	FGF6	HIST1H2BD	JAK3	MLH1	PALB2	PRKDC	SDHB	TCF3	
BCL2L1	CHD2	EPHA3	FGF7	HIST1H3A	JUN	MLL2	PARP1	PRKN	SDHC	TCF7L2	
BCL2L11	CHD4	EPHA5	FGF8	HIST1H3B	KAT6A	MPL	PAX3	PRSS8	SDHD	TERC	
BCL2L2	CHEK1	EPHA7	FGF9	HIST1H3C	KDM5A	MRE11	PAX5	PTCH1	SETBP1	TERT	
BCL6	CHEK2	EPHB1	FGFR1	HIST1H3D	KDM5C	MSH2	PAX7	PTEN	SETD2	TET1	
BCOR	CIC	ERBB2	FGFR2	HIST1H3E	KDM6A	MSH3	PAX8	PTPN11	SF3B1	TET2	
BCORL1	COP1	ERBB3	FGFR3	HIST1H3F	KDR	MSH6	PBRM1	PTPRD	SH2B3	TFE3	

Table 3: Additional content in TruSight Oncology Comprehensive (EU)

Fusions: 23 genes (from RNA)					
<i>ALK</i>	<i>EGFR</i>	<i>ETV1</i>	<i>FGFR3</i>	<i>NTRK2</i>	<i>RET</i>
<i>AXL</i>	<i>EML4</i>	<i>ETV4</i>	<i>KIF5B</i>	<i>NTRK3</i>	<i>ROS1</i>
<i>BCL2</i>	<i>ERG</i>	<i>FGFR1</i>	<i>NRG1</i>	<i>PAX3</i>	<i>TMPRSS2</i>
<i>BRAF</i>	<i>ESR1</i>	<i>FGFR2</i>	<i>NTRK1</i>	<i>RAF1</i>	
Splice variants: 2 genes (from RNA)					
	<i>MET</i>			<i>EGFR</i>	
Amplifications: 2 genes (from DNA)					
	<i>ERBB2</i>			<i>MET</i>	
Complex genomic signatures					
	TMB			MSI	

What are the key attributes of the TruSight Oncology Comprehensive (EU) assay?

TruSight Oncology Comprehensive (EU):

- Provides a kitted solution that can be implemented in house by any lab
- Includes both DNA and RNA content and detects all classes of variants plus genomic signatures such as TMB and MSI; of note fusions are called from RNA to maximize sensitivity for detection
- Enables CGP test results to be generated in only 4-5 days

How is TruSight Oncology Comprehensive (EU) different from current research use only (RUO)-labeled CGP kit offerings, eg, Oncomine Comprehensive Assay Plus (Thermo Fisher Scientific, Catalog no. A48578)?

- **IVD label:** As a CE-marked IVD test, TruSight Oncology Comprehensive (EU) is compliant with European IVD Directive (IVDD) requirements and is on course to comply with stricter IVD Regulation (IVDR) legislation; the IVD label provides labs with the benefits of IVDR preparedness and reduced liability risk and enables easier implementation with significantly reduced test validation efforts as compared to RUO tests
- **Pipeline of companion diagnostic claims:** Multiple pharmaceutical partnerships have been established around TruSight Oncology Comprehensive (EU) with the goal of having many companion diagnostic claims; these are not in the roadmap for RUO-labeled products
- **Underlying technology drives high level of reliability:** TruSight Oncology Comprehensive (EU) is based on proven Illumina technology for library preparation, sequencing, and bioinformatics, maximizing data quality and accuracy; library prep uses hybrid-capture chemistry, enabling full detection and characterization of fusion events not possible with amplicon-based techniques (Figure 2)

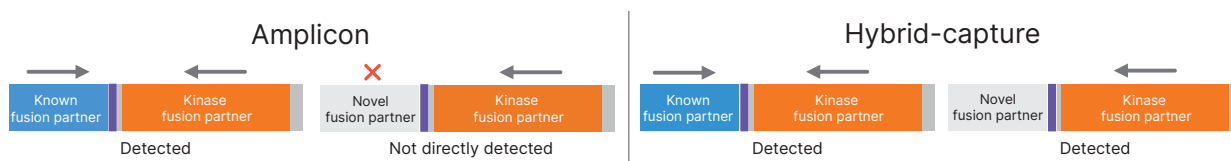


Figure 2: Hybrid-capture chemistry detects novel fusions missed by amplicon-based approaches— Amplicon-based approaches typically require confirmatory testing and do not detect fusions with novel partners. Hybrid-capture chemistry can identify fusions with both known and novel partners.

### How is TruSight Oncology Comprehensive (EU) different from other IVD CGP kit offerings in Europe?

Most IVD kit offerings for biomarker testing to aid in therapy selection in Europe are based on single-gene or small hotspot panels. In contrast, TruSight Oncology Comprehensive (EU) assays over 500 genes in a single test. Content comprises actionable biomarkers, including key immunotherapy biomarkers such as TMB and MSI and emerging biomarkers that can help find eligible patients for clinical trials. In addition, TruSight Oncology Comprehensive (EU) provides full coding sequence coverage of all genes (except for *TERT*) and wide coverage of variant types. Most currently available tests cover one variant type or provide hotspot coverage, which can lead to missed alterations.

The Personal Genome Diagnostics (PGDx) IVD CGP test offered in Europe does not include RNA and might miss important fusion events, especially when it comes to *NTRK*, since these genes can fuse with multiple partners, many of them unknown.

In addition, Illumina has an extensive sales, service, and support infrastructure in Europe and offers a comprehensive support program to help labs expedite implementation and certification. Illumina also supplies IVD users with access to ready-to-use marketing and educational assets to share with their local health care providers and help them understand the value of CGP testing.

Learn more about the potential of CGP, [illumina.com/cgp](https://illumina.com/cgp)

## *NTRK* fusions performance

Panel content in TruSight Oncology Comprehensive (EU) includes *NTRK1*, *NTRK2*, and *NTRK3* genes. The advanced hybrid–capture chemistry enables unbiased and broad detection of *NTRK* gene fusions in RNA, agnostic of the fusion partner.

### How does TruSight Oncology Comprehensive (EU) detect *NTRK* gene fusions?

TruSight Oncology Comprehensive (EU) is an NGS-based test that uses a hybrid–capture chemistry to prepare libraries from DNA and RNA extracted from patient tumor samples. This strategy uses a set of probes that align and capture the genes of interest from the extracted nucleic acids. Genes are then sequenced in both the 3' and 5' directions. This approach can sequence fusion breakpoints and identify the partner gene that formed the fusion with the target gene. The RNA hybrid–capture method for fusion detection has several advantages:

- Eliminates the need to sequence intronic regions and maximizes fusion detection
- Detects fusions agnostic of the fusion partner (both known and novel fusions); as the fusion partner is fully characterized, there is no need for a confirmatory test in contrast to some amplicon-based approaches that use an indirect method, based on 5'/3' imbalance, to detect novel fusion events; these methods can't characterize the fusion partner and typically require confirmatory testing (Figure 2)

### What is the benefit of testing for *NTRK* gene fusions as part of a CGP test?

Including *NTRK* gene fusion testing as part of a CGP assay enables generation of a comprehensive biomarker profile of the patient tumor using a single biopsy specimen and a single test. This saves time, tissue specimen, and cost, while reducing the complexity associated with running multiple biomarker test workflows in the lab. Furthermore, combining less prevalent biomarkers with more prevalent ones in the same test helps ensure that patients are tested for all relevant biomarkers, ultimately increasing the chances of identifying an actionable alteration that can lead to a targeted therapy or clinical trial.

**What data is available to support the ability of TruSight Oncology Comprehensive (EU) to detect *NTRK* fusions?**

Several studies were performed to assess TruSight Oncology Comprehensive (EU) performance with *NTRK* gene fusions. These include reproducibility, within-lab precision, limit of detection (LoD), and clinical validation studies. See page 13 for details.

## Workflow

**What is the recommended sample input?**

TruSight Oncology Comprehensive (EU) requires 40 ng RNA and/or 40 ng DNA extracted from FFPE tissue.

**What are the workflow steps from sample preparation to final report?**

The TruSight Oncology Comprehensive (EU) workflow includes four steps: sample acquisition and processing, DNA and RNA extraction, library preparation, and fully automated sequencing, analysis, and report generation (Figure 3).

Additional details:

- Specimen tissue should be fixed using formalin fixative suitable for molecular analyses; a minimum of 20% tumor cell content is recommended and  $\geq 30\%$  is optimal
- DNA and RNA extraction can be performed using commercially available extraction kits
- Library preparation takes approximately two days
- After loading the libraries on the NextSeq 550Dx instrument, the workflow is fully automated, including sequencing, base calling and QC, variant calling, interpretation, and generation of the final clinical report

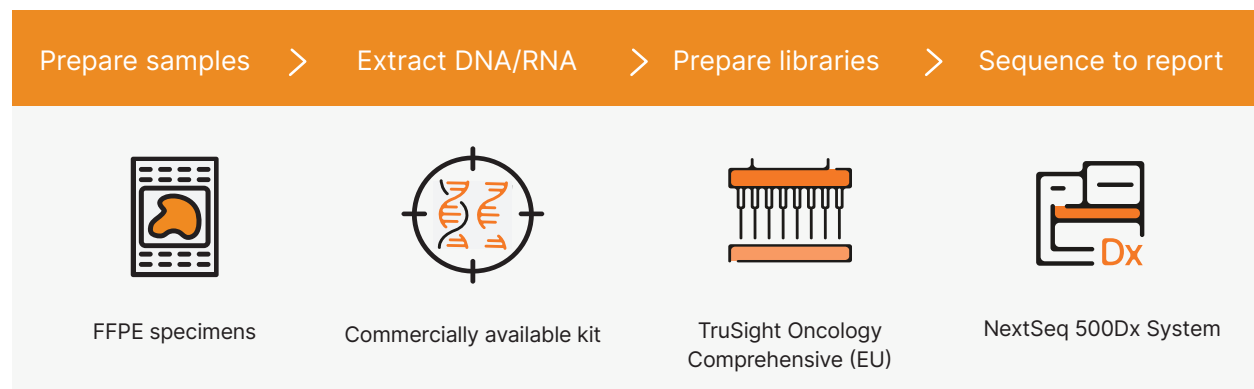


Figure 3: TruSight Oncology Comprehensive (EU) sample-to-report workflow



**How long is the turnaround time (TAT) from sample to report?**

The TAT is 4-5 days from extracted DNA-RNA to final clinical report.

**What sequencing platform is needed?**

TruSight Oncology Comprehensive (EU) is run on the NextSeq 550Dx instrument, an FDA-regulated and CE-marked high-throughput sequencing platform.

**What is the workflow for data analysis?**

TruSight Oncology Comprehensive (EU) offers a streamlined, automated workflow from sequencing to final clinical report. Simply set up the sequencing run using Local Run Manager software. After the sequencing run is complete, secondary, and tertiary analysis kickoff automatically and are performed on-instrument. The output is a final clinical report.

**What is the expected analysis time for a sample batch processed in a sequencing run?**

The analysis time is 8-10 hours.

**What is included in the final clinical report?**

One of the key concerns when using a CGP panel is how to interpret the data and filter nonsignificant variants. TruSight Oncology Comprehensive (EU) software performs analysis and filtering as part of a fully automated workflow. The final report is easy to read and highly actionable.

The IVD Clinical Report is organized into three main sections ([Figure 4](#)):

- Companion diagnostic results: A listing of any *NTRK* fusion finding for positive cases. When an *NTRK* fusion is detected and mentioned in this section, it will also note that VITRAKVI therapy regimen is indicated for this patient
- Genomic findings with evidence of clinical significance: A list of detected variants that have evidence of clinical significance (therapeutic, prognostic, or diagnostic) based on information in approved drug labels, guidelines, and clinical practice guidelines for the patient's tumor type
- Genomic findings with evidence of potential clinical significance: A list of detected variants that:
  1. Have evidence of potential clinical significance (therapeutic, prognostic, or diagnostic) based on information in drug labels, guidelines, and clinical practice guidelines in another tumor type
  2. Match genomic and tumor type eligibility criteria for a clinical trial
  3. Have evidence of potential clinical significance in the primary literature for the patient's tumor type

illumina | TruSight™ Oncology Comprehensive (EU) FOR IN VITRO DIAGNOSTIC USE Report Date 2022-04-06

Sample ID <b>Jane Doe</b>	Run QC ✓ <b>PASS</b>	Run ID <b>201013_NDX550129_0153_AHCVKMBDXX</b>
Tumor Type <b>Breast cancer</b>	RNA Library QC ✓ <b>PASS</b>	Analysis Date <b>2022-04-06</b>
Sex <b>Female</b>	DNA Library QC ✓ <b>PASS</b>	Knowledge Base Version <b>6.8.0.0</b>
	↳ DNA MSI QC ✓ <b>PASS</b>	Knowledge Base Published Date <b>2021-12-23</b>
	↳ DNA Small Variant & TMB QC ✓ <b>PASS</b>	Module Version <b>2.3.6.113</b>
	↳ DNA Copy Number Variant QC ✓ <b>PASS</b>	Claims Package Version <b>2.1.0.2</b>

**Companion Diagnostic Results \***

Detected Variants/Biomarkers	Therapy	Usage	Details
<b>LMNA-NTRK1 Fusion</b>	VITRAKVI® (larotrectinib)	Indicated	Type: Fusion Breakpoint 1: chr1:156100562   Breakpoint 2: chr1:156844696   Fusion Supporting Reads: 64

For details about the Companion Diagnostics claims that were evaluated for this sample, see the Companion Diagnostics Intended Uses Evaluated table.

**Other 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 \***

No Detected Variants

**Genomic Findings with Potential Clinical Significance \***

TMB: 3.1 Mut/Mb		MSI: MS-Stable	
Detected Variants	Details	Detected Variants	Details
<b>APC p.(Arg1450Ter)</b>	Type: SNV VAF: 11.39%   Consequence: Stop Gained   Nucleotide Change: NM_000038.5:c.4348C>T   Genomic Position: chr5:112175639   Reference Allele: C   Alternate Allele: T		

\*Additional information in Informatics Details section

**1 of 6**

▶ Companion diagnostics results

▶ Genomic findings with evidence of clinical significance

▶ Genomic findings with evidence of potential clinical significance

Figure 4: TruSight Oncology Comprehensive (EU) example clinical report—The clinical report includes companion diagnostic results, genomic findings with evidence of clinical significance, and genomic findings with evidence of potential clinical significance.

## Reimbursement

What reimbursement is available for CGP tests in Europe? How does that vary by country?

National and/or regional funding is available in most Western European countries. Laboratory services are reimbursed in different ways depending on the country in which they are located, the clinical setting in which they work, and the services they provide (Figure 5 and Table 4). Illumina has established a dedicated Market Access team that works with Payers to further expand the reimbursement of CGP across all European countries. In addition, Illumina is working towards opening access to CGP in various major emerging markets of Europe. For further questions about the appropriate coding or reimbursement for cancer testing, we encourage customers to:

- Speak to their respective national medical society for guidance regarding how to manage reimbursement claims for testing and refer to any national or regional budget holders (Payers) for guidance on coding and reimbursement, eg, national pathology societies
- Contact their local Illumina representative who will connect them with the Illumina Market Access team. The Illumina Market Access team will provide them with guidance on where to find general reimbursement fee schedules, answer general reimbursement queries for diagnostics from customers or point customers to key local institutions they can contact. Note: as a manufacturer of IVD products, Illumina will not be able to advise customers on what specific reimbursement codes customers should bill for TruSight Oncology Comprehensive (EU)

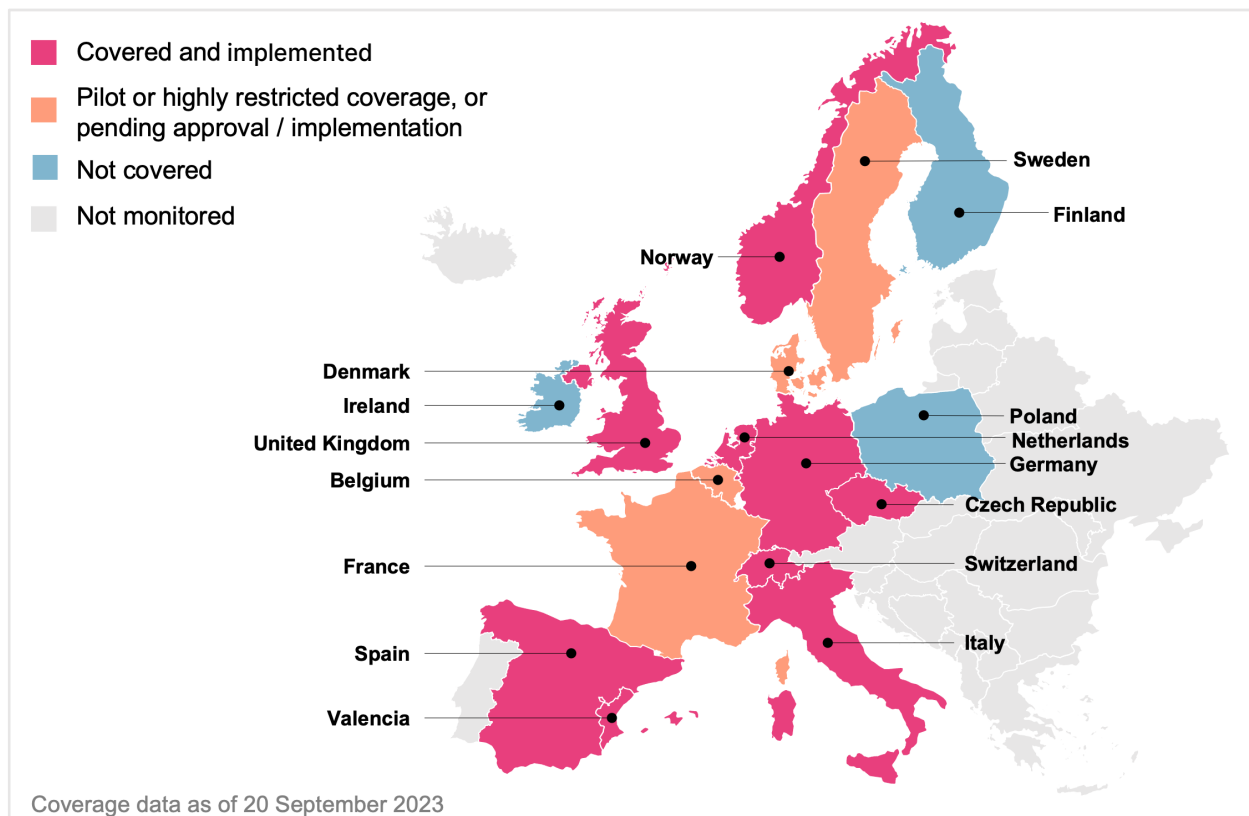


Figure 5: CGP test coverage options across Europe

Table 4: Laboratory fee schedules

Country	Relevant fee schedules
Austria	N/A
Belgium	<a href="#">NGS pilot study</a>
Denmark	N/A
England	<a href="#">National Genomic Test Directory</a>
Finland	N/A
France	<a href="#">National Reimbursement List for Innovative Technologies</a> and <a href="#">National Fee Schedule</a>
Germany	<a href="#">National Fee Schedule Germany</a>
Israel	<a href="#">National Health Basket</a>
Italy <sup>a</sup>	<a href="#">National Fee Schedule</a>
Netherlands <sup>b</sup>	N/A
Norway	N/A
Scotland	N/A
Spain <sup>a</sup>	N/A
Sweden	N/A
Switzerland	<a href="#">National Fee Schedule for Medical Services</a>

a. For Italy, the national fee schedule is informative only; for Italy and Spain, coverage is defined at the regional level  
b. For the Netherlands, coverage is negotiated at the local level between hospitals and health insurers  
N/A: Not available, ie, no fee schedule for diagnostics in the country; diagnostics are funded through global budget allocation to laboratory customers

## Performance characteristics

### Limit of Detection (LoD)

The LoD is defined as the lowest analyte value (eg, variant allele frequency or supporting reads) that can be detected consistently (95% detection limit or a type II error of 5%). FFPE tissues with *NTRK1-3* fusions (Low-Grade Glioma, Glioblastoma Multiforme, Myofibroblastic Sarcoma, Sarcoma, Secretory Breast Cancer, Colon Cancer) as well as an FFPE-treated cell line with *NTRK1* and *NTRK3* small DNA variants were used in the study. Eighteen observations were generated for each test level per lot per variant by three operators and three sequencing instruments initiating library preparation on three nonconsecutive days with two replicates of each sample test level ([Table 5](#)).

Table 5: LoD for NTRK fusions

Gene	Fusion	LoD (supporting reads)
NTRK1	TPM3-NTRK1	20.2
	BCAN-NTRK1	53.2
NTRK2	ETV6-NTRK2	20.3
	STRN-NTRK2	13.6
NTRK3	ETV6-NTRK3	16.2
	KANK1-NTRK3	13.5

## Reproducibility for NTRK fusions

Reproducibility of the TruSight Oncology Comprehensive (EU) assay was tested across three sites (one internal, two external) with two operators per site, two within-run replicates, and three nonconsecutive testing days. RNA containing known NTRK fusions were obtained from formalin-fixed paraffin-embedded (FFPE) samples and cell lines. Testing was observed for high (two to three times the LoD) and low (approximately at LoD) variant levels. At each site, each operator tested the panel members in duplicate, three times, generating six observations per panel member (36 observations total). Percent positive calls (PPCs) and percent negative calls (PNCs) for targeted RNA fusion variants were determined as the primary endpoints. Two-sided 95% confidence intervals (CIs) associated with all endpoints were calculated using the Wilson score method (Table 6, Table 7).

Table 6: Reproducibility for NTRK fusions: PPC

Targeted fusion	No. of tests	Mean supporting reads	PPC (%)	95% CI
Variant level: High				
LMNA-NTRK1	36	37.9	100.0% (36/36)	(90.4%, 100.0%)
BCAN-NTRK1	36	33.6	94.4% (34/36)	(81.9%, 98.5%)
ETV6-NTRK2	36	24.6	100.0% (36/36)	(90.4%, 100.0%)
TRIM24-NTRK2	36	36.6	100.0% (36/36)	(90.4%, 100.0%)
ETV6-NTRK3	36	56.4	100.0% (36/36)	(90.4%, 100.0%)
BTBD1-NTRK3	35	32.9	100.0% (35/35)	(90.1%, 100.0%)
Variant level: Low				
LMNA-NTRK1	36	13.8	94.4% (34/36)	(81.9%, 98.5%)
BCAN-NTRK1	36	16.9	80.6% (29/36)	(65.0%, 90.2%)
ETV6-NTRK2	35	15.2	94.3% (33/35)	(81.4%, 98.4%)
STRN-NTRK2	36	13.6	100.0% (36/36)	(90.4%, 100.0%)
ETV6-NTRK3	36	24.8	100.0% (36/36)	(90.4%, 100.0%)
BTBD1-NTRK3	36	18.1	100.0% (36/36)	(90.4%, 100.0%)

Table 7: Reproducibility for *NTRK* fusions: PNC

Targeted fusion	n	PNC (%)	95% CI
Variant level: High			
<i>LMNA-NTRK1</i>	180	100.0% (180/180)	(97.9%, 100.0%)
<i>BCAN-NTRK1</i>	251	100.0% (251/251)	(98.5%, 100.0%)
<i>ETV6-NTRK2</i>	251	100.0% (251/251)	(98.5%, 100.0%)
<i>TRIM24-NTRK2</i>	216	100.0% (216/216)	(98.2%, 100.0%)
<i>ETV6-NTRK3</i>	144	100.0% (144/144)	(97.4%, 100.0%)
<i>BTBD1-NTRK3</i>	216	100.0% (216/216)	(98.2%, 100.0%)
Variant level: Low			
<i>LMNA-NTRK1</i>	213	100.0% (213/213)	(98.2%, 100.0%)
<i>BCAN-NTRK1</i>	249	100.0% (249/249)	(98.5%, 100.0%)
<i>ETV6-NTRK2</i>	250	100.0% (250/250)	(98.5%, 100.0%)
<i>STRN-NTRK2</i>	249	100.0% (249/249)	(98.5%, 100.0%)
<i>ETV6-NTRK3</i>	177	100.0% (177/177)	(97.9%, 100.0%)
<i>BTBD1-NTRK3</i>	249	100.0% (249/249)	(98.5%, 100.0%)

## Within-lab precision

Within-laboratory precision was evaluated for *NTRK1-3* fusions. Each sample was tested at ~1× LoD (low variant level) and ~2-3× LoD (high variant level) and each test level was run in duplicate in each library preparation event across three operators. Each operator started library preparation on three nonconsecutive start days and sequenced on three designated NextSeq 550Dx instruments. Three reagents lots were tested generating 54 observations per level (Table 8, Table 9).

Table 8: Qualitative results for targeted *NTRK* fusions

Targeted fusions	Variant level: High			Variant level: Low		
	Mean supporting reads	PPC (95% CI)	PNC (95% CI)	Mean supporting reads	PPC (95% CI)	PNC (95% CI)
<i>TPM3-NTRK1</i>	57.1	100.0% (93.4-100.0%)	100.0% (98.3-100.0%)	20.2	100.0% (93.4-100.0%)	100.0% (98.6-100.0%)
<i>BCAN-NTRK1</i>	53.2	100.0% (93.4-100.0%)	100.0% (98.6-100.0%)	22.1	94.4% (84.9-98.1%)	100.0% (98.8-100.0%)
<i>ETV6-NTRK2</i>	52	100.0% (93.4-100.0%)	100.0% (98.6-100.0%)	20.3	100.0% (93.4-100.0%)	100.0% (98.8-100.0%)
<i>ETV6-NTRK3</i>	41.7	100.0% (93.4-100.0%)	100.0% (98.3-100.0%)	16.2	100.0% (93.4-100.0%)	100.0% (98.6-100.0%)
<i>ETV6-NTRK3</i> (FFPE cell line)	28.3	100.0% (93.4-100.0%)	100.0% (98.3-100.0%)	23.1	98.1% (90.2-99.7%)	100.0% (98.6-100.0%)

Table 9: Quantitative SD and CV results for *NTRK* fusions<sup>a,b</sup>

Targeted fusion	Mean supporting reads	Operator SD (%CV)	Instrument SD (%CV)	Lot SD (%CV)	Day SD (%CV)	Residual SD (%CV)	Total SD (%CV)
Supporting reads level: High							
<i>TPM3-NTRK1</i>	57.1	11.2 (19.6)	1.2 (2.1)	5.7 (9.9)	2.0 (3.5)	11.9 (20.8)	17.4 (30.5)
<i>BCAN-NTRK1</i>	53.2	8.2 (15.5)	0.8 (1.4)	5.6 (10.5)	2.9 (5.4)	11.3 (21.3)	15.4 (28.9)
<i>ETV6-NTRK2</i>	52	0.0 (0.0)	4.1 (7.8)	7.1 (13.6)	5.7 (11.0)	12.9 (24.9)	16.3 (31.4)
<i>ETV6-NTRK3</i>	41.7	7.2 (17.2)	0.4 (1.0)	6.4 (15.4)	0.0 (0.0)	10.7 (25.8)	14.4 (34.6)
<i>ETV6-NTRK3</i> <sup>c</sup>	28.3	7.9 (28.0)	1.0 (3.6)	0.0 (0.0)	0.0 (0.0)	9.1 (32.0)	12.1 (42.6)
Supporting reads level: Low							
<i>TPM3-NTRK1</i>	20.2	2.3 (11.5)	0.9 (4.7)	3.3 (16.4)	0.8 (4.1)	5.7 (28.2)	7.1 (35.2)
<i>BCAN-NTRK1</i>	22.1	3.4 (15.3)	1.4 (6.4)	1.8 (8.0)	0.0 (0.0)	6.0 (27.2)	7.3 (32.9)
<i>ETV6-NTRK2</i>	20.3	0.0 (0.0)	3.2 (15.7)	4.4 (21.5)	0.0 (0.0)	8.3 (40.8)	9.9 (48.7)
<i>ETV6-NTRK3</i>	16.2	2.3 (14.0)	2.4 (14.6)	2.2 (13.4)	0.0 (0.0)	4.7 (28.7)	6.1 (37.5)
<i>ETV6-NTRK3</i> <sup>c</sup>	23.1	4.6 (19.7)	1.2 (5.1)	0.0 (0.0)	0.0 (0.0)	6.7 (29.1)	8.2 (35.5)

a. Based on 54 valid attempts

b. SD, standard of deviation; CV, coefficient of variation

c. FFPE cell line

## *NTRK* clinical studies

To validate the TruSight Oncology Comprehensive (EU) assay as a CDx for the selection of patients for treatment with VITRAKVI (larotrectinib; Bayer AG), samples from patients enrolled in the larotrectinib clinical trials, supplemented with commercially sourced FFPE tissue specimens, were tested to support a TruSight Oncology Comprehensive (EU) assay accuracy study and a bridging study.

Summary of the three clinical trials:

- NCT02122913 was a multicenter, open-label, Phase 1, dose escalation study in adult patients with advanced solid tumors (all-comers) unselected for *NTRK* fusion positive cancer. Following the dose escalation portion of the study, a dose expansion was initiated for patients with documented *NTRK* fusion positive cancer and for patients whom the investigator believed might benefit from a highly selective TRK inhibitor.
- NAVIGATE NCT02576431 is an ongoing, multicenter, open-label, Phase 2, “basket” study in patients age 12 and older with recurrent advanced solid tumors with a documented *NTRK* fusion as assessed by an outside laboratory.
- SCOUT NCT02637687 is an ongoing, multicenter, open-label, Phase 1/2 study in pediatric patients aged from birth to 21 years with advanced solid or primary central nervous system (CNS) tumors.

Of the *NTRK* fusion positive patients included in the TruSight Oncology Comprehensive (EU) assay study, 164 formed the larotrectinib extended primary efficacy set (ePAS4).

Data for the *NTRK* clinical studies are summarized here. For details, see the TruSight Oncology Comprehensive (EU) Product Insert at [support.illumina.com/sequencing/sequencing\\_kits/trusight-oncology-comprehensive.html](https://support.illumina.com/sequencing/sequencing_kits/trusight-oncology-comprehensive.html)

## Accuracy study for *NTRK1*, *NTRK2*, *NTRK3* fusion detection

The accuracy of the TruSight Oncology Comprehensive (EU) assay for detecting *NTRK1-3* fusions in patients with solid tumors was demonstrated by assessing the concordance of *NTRK* fusion results between the TruSight Oncology Comprehensive (EU) assay and a validated orthogonal method based on NGS (Table 10).

A retrospective, noninterventional study was conducted using 170 samples from clinical trials and an additional 329 supplemental samples. Studies were conducted at one external site for the TruSight Oncology Comprehensive (EU) assay and one central laboratory for the orthogonal method (Table 11).

Read the TruSight Oncology Comprehensive (EU) Package Insert to learn more, [support.illumina.com/sequencing/sequencing\\_kits/trusight-oncology-comprehensive.html](https://support.illumina.com/sequencing/sequencing_kits/trusight-oncology-comprehensive.html)

Table 10: Cross tabulation of TruSight Oncology Comprehensive (EU) assay vs orthogonal method results for *NTRK* fusion detection

		Orthogonal method			Total
		<i>NTRK</i> fusion positive	<i>NTRK</i> fusion negative	Invalid	
TruSight Oncology Comprehensive (EU) assay	<i>NTRK</i> fusion positive	114	16	1	131
	<i>NTRK</i> fusion negative	4	273	6	283
	Invalid <sup>a</sup>	4	28	53	85
Total		122	317	60	499

a. TruSight Oncology Comprehensive (EU) assay invalid results come from sample and run level

Table 11: Positive percent agreement (PPA) and negative percent agreement (NPA) of the TruSight Oncology Comprehensive (EU) assay compared to orthogonal method for *NTRK* fusion detection

Agreement measure	Excluding invalid TruSight Oncology Comprehensive (EU) assay results		Including invalid TruSight Oncology Comprehensive (EU) assay results	
	Agreement, % (n/N)	95% CI <sup>a</sup>	Agreement, % (n/N)	95% CI <sup>a</sup>
PPA	96.6% (114/118)	91.5%-99.1%	93.4% (114/122)	87.5%-97.1%
NPA	94.5% (273/289)	91.2%-96.8%	86.1% (273/317)	81.8%-89.7%

a. 95% CI based on (exact) Clopper-Pearson method



## Clinical bridging study for *NTRK1*, *NTRK2*, *NTRK3* fusion detection

The clinical bridging study was conducted to assess the clinical effectiveness of the TruSight Oncology Comprehensive (EU) assay to identify *NTRK1*, *NTRK2*, or *NTRK3* fusion positive patients for treatment with larotrectinib and to assess the concordance between the TruSight Oncology Comprehensive (EU) assay and local test (LT) methods (used to determine *NTRK* fusion status for the larotrectinib clinical trials). LT methods included NGS, fluorescent *in situ* hybridization (FISH), and PCR (Tables 12-14).

The sample set included 279 patients enrolled in the larotrectinib studies using a data cutoff of July 15, 2019 with known *NTRK* fusion status and supplemental samples determined to be fusion negative by NGS and PCR.

Table 12: Concordance between the TruSight Oncology Comprehensive (EU) assay and LT methods for detecting *NTRK* fusions

Agreement measure <sup>a</sup>	Excluding invalid TruSight Oncology Comprehensive (EU) assay results		Including invalid TruSight Oncology Comprehensive (EU) assay results	
	Agreement, % (n/N)	95% CI <sup>b</sup>	Agreement, % (n/N)	95% CI <sup>b</sup>
PPA	89.1% (123/138)	82.7%-93.8%	80.4% (123/153)	73.2%-86.4%
NPA	96.3% (235/244)	93.1%-98.3%	82.7% (235/284)	77.8%-87.0%
OPA	93.7% (358/382)	90.8%-95.9%	81.9% (358/437)	78.0%-85.4%

a. NPA, negative percent agreement; OPA, overall percent agreement; PPA, positive percent agreement  
b. 95% CI based on (exact) Clopper-Pearson method

Table 13: Concordance between the TruSight Oncology Comprehensive (EU) assay and LT methods for detecting *NTRK* fusions, including imputed values for LT positive patients with missing TruSight Oncology Comprehensive (EU) assay results

Agreement measure	Agreement, %	95% CI
PPA	85.2%	78.6%-91.7%
NPA	96.3%	93.9%-98.7%
OPA	91.2%	87.9%-94.5%

Missing TruSight Oncology Comprehensive (EU) assay results for LT fusion negative patients were not imputed. Two-sided 95% CIs were calculated based on the multiple imputation Boot method. NPA, negative percent agreement; OPA, overall percent agreement; PPA, positive percent agreement

Table 14: Concordance between the TruSight Oncology Comprehensive (EU) assay and LT methods for detecting *NTRK* fusions by LT method

Agreement measure by LT method	Agreement, % (n/N)	95% CI
<b>DNA NGS</b>		
PPA	84.2% (32/38)	68.7%-94.0%
NPA	88.9% (16/18)	65.3%-98.6%
OPA	85.7% (48/56)	73.8%-93.6%
<b>RNA NGS</b>		
PPA	91.5% (75/82)	83.2%-96.5%
NPA	96.9% (218/225)	93.7%-98.7%
OPA	95.4% (293/307)	92.5%-97.5%
<b>FISH</b>		
PPA	80.0% (8/10)	44.4%-97.5%
NPA	Not calculated (1/1)	Not calculated
OPA	81.8% (9/11)	48.2%-97.7%
<b>PCR</b>		
PPA	100.0% (8/8)	63.1%-100.0%
NPA	Not calculated (0/0)	Not calculated
OPA	100.0% (8/8)	63.1%-100.0%
<p>a. 95% CIs were calculated using the (exact) Clopper-Pearson method</p> <p>b. Includes NGS methods that use RNA only and both DNA and RNA</p> <p>Not calculated for subgroups with sample count &lt; 5, agreement statistics were not calculated.</p> <p>FISH, fluorescence <i>in situ</i> hybridization; NPA, negative percent agreement; OPA, overall percent agreement; PPA, positive percent agreement</p>		

## Clinical efficacy results

Within the ePAS4, the efficacy of larotrectinib in the TruSight Oncology Comprehensive (EU) assay positive, LT positive population (97 patients, ORR=78.4%, 95% CI [68.8%, 86.1%]) was similar to the efficacy of larotrectinib in the total ePAS4 population (164 patients, ORR=72.6%, 95% CI [65.1%, 79.2%]). Of the 97 TruSight Oncology Comprehensive (EU) positive patients in ePAS4, 28 (28.9%) patients had achieved a complete response/surgical complete response and 48 (49.5%) patients had achieved a partial response (Table 15).

Of the 13 TruSight Oncology Comprehensive (EU) negative, LT positive population, 1 (7.7%) showed complete response and 2 (15.4%) showed partial response with larotrectinib therapy.

Table 15: Overall response rate (ORR) for LT positive patients by LT and TruSight Oncology Comprehensive (EU) assay results in ePAS4

	LT fusion positive N = 164	TruSight Oncology Comprehensive (EU) positive and LT positive N = 97	TruSight Oncology Comprehensive (EU) negative and LT positive N = 13
Best overall response, n (%)			
Complete response (CR)	31 (18.9%)	22 (22.7%)	1 (7.7%)
Surgical complete response (sCR)	8 (4.9%)	6 (6.2%)	0
Partial response (PR)	80 (48.8%)	48 (49.5%)	2 (15.4%)
Stable disease	25 (15.2%)	13 (13.4%)	4 (30.8%)
Progressive disease	13 (7.9%)	6 (6.2%)	5 (38.5%)
Not evaluable	7 (4.3%)	2 (2.1%)	1 (7.7%)
Overall response rate			
Number of patients	164	97	13
Number of patients with CR + sCR + PR	119	76	3
ORR% (95% CI)	72.6% (65.1%, 79.2%)	78.4% (68.8%, 86.1%)	23.1% (5.0%, 53.8%)

Fifty-four patients are missing TruSight Oncology Comprehensive (EU) assay results. 95% CI was calculated using the (exact) Clopper-Pearson method.



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