

## TRUPCR® ROS1 Fusion Detection Kit

### NEED

ROS1 (c-ros oncogene 1) is a receptor tyrosine kinase which has been largely implicated in genetic rearrangements in variety of cancers including NSCLC, Ovarian Cancer, Gastric Cancer, Colorectal Cancer, Glioblastoma & Cholangiocarcinoma. ROS1 fusion is found in around 1% to 2% of NSCLC cases.

The treatment of non-small-cell lung cancer (ROS1 fusions) has been revolutionized due to development of molecularly targeted therapy in genomically defined subsets of patients and drugs like entrectinib & Crizotinib.

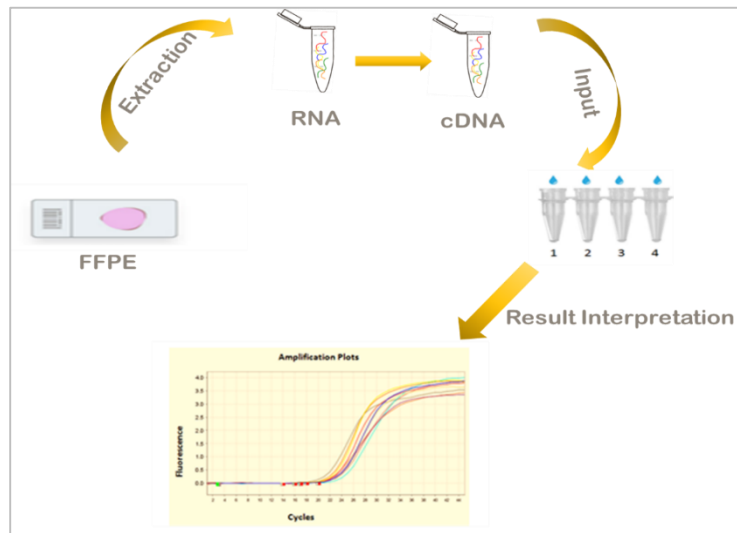
### SOLUTION BY TRUPCR®

The TRUPCR® ROS1 Fusion Detection Kit is intended for the qualitative detection of 14 ROS1 gene fusions in human NSCLC formalin-fixed paraffin-embedded (FFPE) tissue samples using real time PCR system. The human ABL1 gene that serves as an internal positive control for human nucleic acid is also included in this kit.

The kit can detect 14 different gene fusions in a single run that are found in Exon A19 & A20.

The kit contains primers and probes for the detection of the all target (FAM) as well as endogenous control gene as internal control (Texas Red). Internal control is included to verify the extraction procedure and also the possible presence of inhibitors, which may cause false negative results.

### TEST PROCEDURE



### PRODUCT HIGHLIGHTS:

- Detects 14 clinically relevant ROS1 gene fusions in a single run
- Sensitive to detect up to 10 copies of transcript / reaction

### TECHNICAL SPECIFICATIONS

- Endogenous Internal control included to avoid false-negative results
- Compatible Instruments – Applied Biosystems™ 7500 series, Applied Biosystems™ StepOne series, Applied Biosystems™ QuantStudio® series, Rotor-Gene Q, Bio-Rad CFX96, CFX384, AriaMx Real-Time PCR, Roche - LightCycler® 480 –II, Line gene K Real-Time PCR

**LIST OF DETECTABLE GENE FUSIONS**

Spliced Gene & Exon	Remarks
SLC34A2 exon 4 & SLC34A2 exon14del	It detects 5 gene fusions but does not distinguish between them.
CD74 exon 6	
SDC4 exon 2	
SDC4 exon 4	
SLC34A2 exon 4 & SLC34A2 exon14del	
CD74 exon 6	It detects 5 gene fusions but does not distinguish between them.
SDC4 exon 4	
EZR exon 10	
TPM3 exon 8	It detects 3 gene fusions but does not distinguish between them
LRIG3 exon 16	
GOPC exon 8	
GOPC exon 4	
	It detects 1 gene fusion

**ORDERING INFORMATION**

Cat. No.	Description	Size
3B1349	TRUPCR® ROS1 Fusion Detection Kit	24 Reactions
3B1350	TRUPCR® ROS1 Fusion Detection Kit	48 Reactions

