

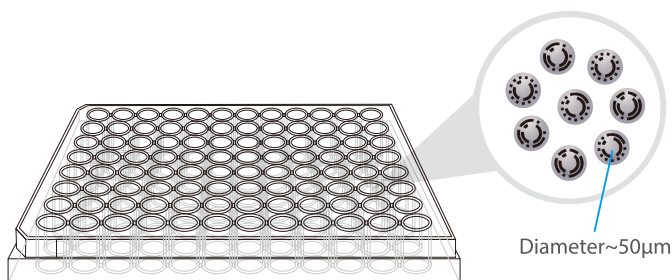


IntelliPlex™ RET/NTRK1 Rearrangement Kit

The IntelliPlex RET/NTRK1 Rearrangement Kit is a qualitative molecular assay for the detection of gene rearrangements on variants KIF5B-RET, CCDC6-RET, NCOA4-RET, TRIM33-RET, CUX1-RET, CD74-NTRK1 and MPRIP-NTRK1 of the RET/NTRK1 genes. The kit offers a broad coverage of 14 variants in a single well by using the one-step RT-PCR and π Code MicroDisc technologies.

Single-Well Multiplexing

Multiplexing is made possible by using the π Code MicroDiscs technology. Each probes are individually coated on the MicroDiscs of different image patterns. The coated MicroDiscs are then pooled together for hybridization in a single-well format.



RET/NTRK1 (14 Variants)

Variants	Exon Note
KIF5B-RET	K15;R11, K15;R12, K16;R12, K22;R12, K23;R12, K24;R8, K24;R11
CCDC6-RET	C1;R12
NCOA4-RET	N6;R12, N8;R12
TRIM33-RET	T14;R12
CUX1-RET	CX10;R12
CD74-NTRK1	C8;N12
MPRIP-NTRK1	M21;N14

▶ PRODUCT HIGHLIGHTS

- Single-well multiplex detection
- Highly sensitive (~500 copies)
- Low sample input (10ng)
- < 6 hrs turnaround time (sample preparation included)

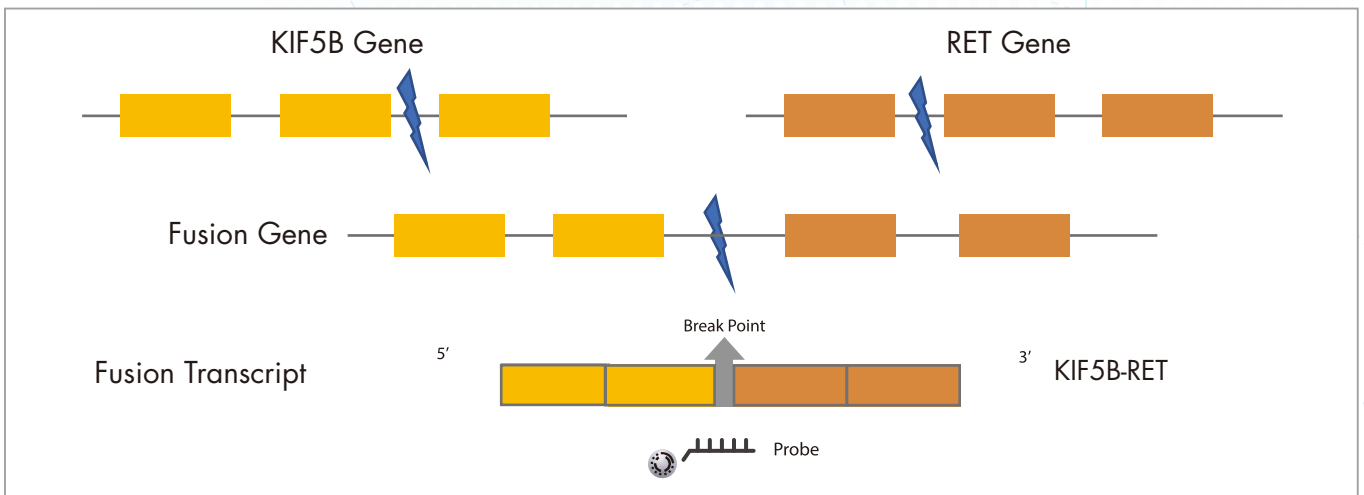
▶ INSTRUMENTATIONS

- DigiPlex™ Thermocycler
- IntelliPlex™ 1000 π Code Processor
- PlexBio™ 100 Fluorescent Analyzer

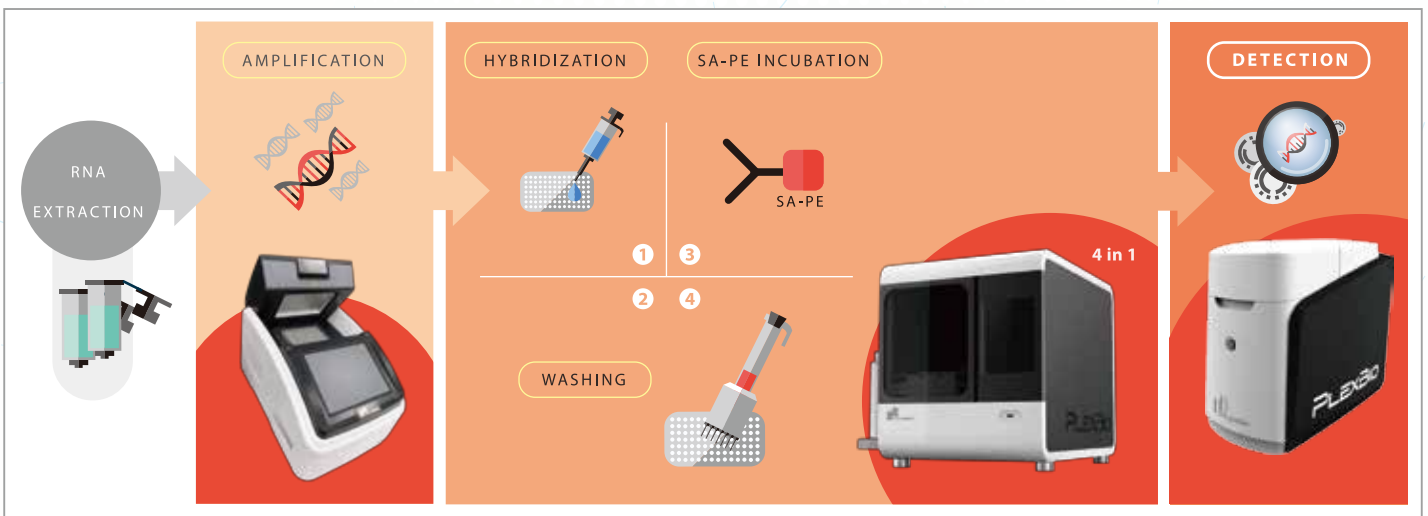
▶ SPECIMEN TYPES

- FFPE
- Fresh Tissue

Fusion Transcript Detection



Assay Work Flow



High Sensitivity

An example performance of the IntelliPlex RET/NTRK1 Rearrangement Kit, as illustrated by its capability to detect small amounts of variants among wild type.

The bar chart, titled 'RET/ NTRK1', shows the Mean Fluorescence Intensity (MFI) for different samples. The y-axis ranges from 0 to 14000. The x-axis lists the samples: K15;R11 (1000 copies), K15;R12 (1000 copies), C8;N12 (1000 copies), M21;N14 (1000 copies), and WT. The MFI values are approximately 13500, 11500, 12000, 2500, and 500 respectively.

Sample	MFI
K15;R11 1000 copies	~13500
K15;R12 1000 copies	~11500
C8;N12 1000 copies	~12000
M21;N14 1000 copies	~2500
WT	~500

Order Information

Category	Product Name	Package Size	Cat. No.
Assay Kit	IntelliPlex™ RET/NTRK1 Rearrangement Kit	24 rxns	82025

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