

## KMT2A-MLLT1 Fusion/Translocation FISH Probe Kit

### Introduction

The KMT2A-MLLT1 Fusion/Translocation FISH Probe Kit is designed to detect rearrangements involving the human *KMT2A* and *MLLT1* genes located on chromosome bands 11q23.3 and 19p13.3, respectively. Rearrangements between the two genes, the *KMT2A* gene – also known as *HRX*, *MLL*, *MLL1*, *TRX1*, *ALL-1*, *CXXC7*, *HTRX1*, *MLL1A*, *WDSTS*, *MLL/GAS7* or *TET1-MLL* – and the *MLLT1* gene – also called *ENL*, *LTG19* or *YEATS1*, have been observed in acute myeloid leukemia (AML), acute lymphoblastic leukemia (ALL) and other malignancies.

### Intended Use

To detect rearrangements involving the human *KMT2A* and *MLLT1* genes located on chromosome bands 11q23.3 and 19p13.3, respectively.

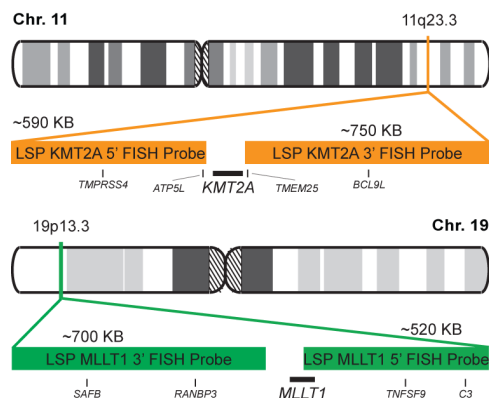
### Cont.

LSP KMT2A 5'-3' FISH Probe  
LSP MLLT1 5'-3' FISH Probe

### Color

CytoOrange  
CytoGreen

### Probe Design



LSP KMT2A 5' FISH Probe covers some genomic sequences adjacent to the 5' (start) portion of the *KMT2A* gene. LSP KMT2A 3' FISH Probe covers the 3' (end) part as well as sequences downstream of the gene. LSP MLLT1 5' FISH Probe covers the 5' (start) portion of the *MLLT1* gene and some adjacent genomic sequences. LSP MLLT1 3' FISH Probe covers the 3' (end) part as well as sequences downstream of the gene. The probe set is optimized to reveal translocations between the two genes.

### Cat. No.

CT-PAC182-10-OG

### Volume

10 Tests (100 µL)

### Signal Pattern Interpretation

#### Normal Pattern

2O + 2G\*

#### Abnormal Pattern

Other Patterns

\*Overlapping orange and green signals can appear as yellow.

- 1) Tkachuk DC, et al. *Cell*. 71(4):691-700 (1992).
- 2) Huret JL, et al. *Leukemia*. 7(2):152-60 (1993).
- 3) Andreasson P, et al. *Eur J Haematol*. 65(1):40-51 (2000).
- 4) Archimbaud E, et al. *Leukemia*. 12(1):25-33 (1998).
- 5) Barber KE, et al. *Genes Chromosomes Cancer*. 41(3):266-71 (2004).

\* CE IVD only available in certain countries. All other countries are either ASR or RUO. Please contact your local dealer or our headquarters for more information.



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