

## KMT2A-MLLT4 Fusion/Translocation FISH Probe Kit

### Introduction

The KMT2A-MLLT4 Fusion/Translocation FISH Probe Kit is designed to detect rearrangements involving the human *KMT2A* and *MLLT4* genes located on chromosome bands 11q23.3 and 6q27, 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 *MLLT4* gene – also called *AF6* or *MLL-AF6*, have been observed in acute myeloid leukemia (AML) and other malignancies.

### Intended Use

To detect rearrangements involving the human *KMT2A* and *MLLT4* genes located on chromosome bands 11q23.3 and 6q27, respectively.

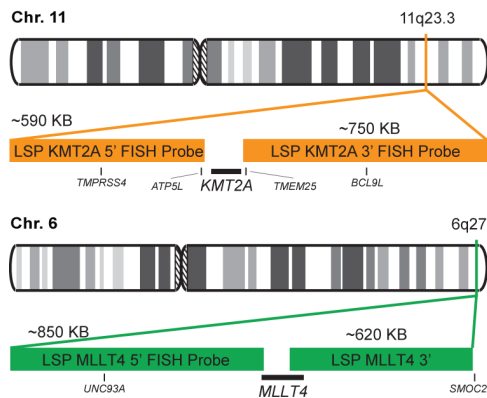
### Cont.

LSP KMT2A 5'-3' FISH Probe  
LSP MLLT4 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 MLLT4 5' FISH Probe covers the 5' (start) portion of the *MLLT4* gene and some adjacent genomic sequences. LSP MLLT4 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-PAC184-10-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) Prasad R, et al. *Cancer Res.* 53(23):5624-8 (1993).
- 2) Welborn JL, et al. *Cancer Genet Cytogenet.* 65(2):125-9 (1993).
- 3) Blum W, et al. *Cancer.* 101(6):1420-7 (2004).
- 4) Abdou SM, et al. *Leuk Lymphoma.* 43(1):89-95 (2002).
- 5) Barber KE, et al. *Genes Chromosomes Cancer.* 41(3):266-71 (2004).



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