

KMT2A-MLL3 Fusion/Translocation FISH Probe Kit

Introduction

The KMT2A-MLL3 Fusion/Translocation FISH Probe Kit is designed to detect rearrangements involving the human *KMT2A* and *MLL3* genes located on chromosome bands 11q23.3 and 9p21.3, 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 *MLL3* gene – also called *AF9* or *YEATS3*, have been observed in acute myeloid leukemia (AML) and other malignancies.

Intended Use

To detect rearrangements involving the human *KMT2A* and *MLL3* genes located on chromosome bands 11q23.3 and 9p21.3, respectively.

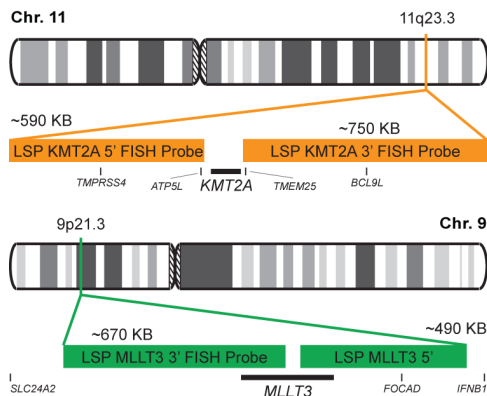
Cont.

LSP KMT2A 5'-3' FISH Probe
LSP MLL3 5'-3' FISH Probe

Color

CytoOrange
CytoGreen

Probe Design



Not to Scale

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 MLL3 5' FISH Probe covers the 5' (start) portion of the *MLL3* gene and some adjacent genomic sequences. LSP MLL3 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-PAC183-10-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) Albain KS, et al. *Genes Chromosomes Cancer*. 2(1):53-8 (1990).
- 2) Sandoval C, et al. *Leukemia*. 6(6):513-9 (1992).
- 3) Joh T, et al. *Oncogene*. 13(9):1945-53 (1996).
- 4) Anguita E, et al. *Cancer Genet Cytogenet*. 120(2):144-7 (2000).
- 5) Barber KE, et al. *Genes Chromosomes Cancer*. 41(3):266-71 (2004).



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