CytoTest®
Premium **FISH** for Quality of Lives

ENGLISH

For Professional Use Only

KMT2A-MLLT3 Dual Fusion/Translocation FISH Probe Kit

Introduction

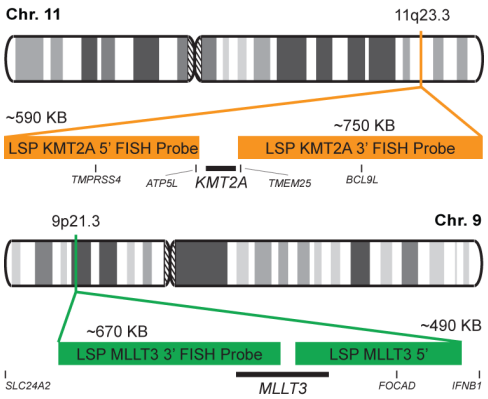
The KMT2A-MLLT3 Fusion/Translocation FISH Probe Kit is designed to detect rearrangements involving the human KMT2A and MLLT3 genes located on chromosome bands 11q23.3 and 9p21.3, respectively. Rearrangements between the two genes, the KMT2A gene – also known as HRX, MLL, MLL1, TRX1, ALL-1, CXXC7, HTRX1, MLL1A, WDSTS, MLL/GAS7 or TET1-MLL – and the MLLT3 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 *MLLT3* genes located on chromosome bands 11q23.3 and 9p21.3, respectively.

Cont.	Color
LSP KMT2A 5'-3' FISH Probe	CytoOrange
LSP MLLT3 5'-3' FISH Probe	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 MLLT3 5' FISH Probe covers the 5' (start) portion of the *MLLT3* gene and some adjacent genomic sequences. LSP MLLT3 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.	Volume
CT-PAC183-10-OG	10 Tests (100 µL)

Signal Pattern Interpretation

Normal Patterns	Abnormal Patterns
2O2G*	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).

-25°C -15°C IVD

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* 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.