CytoTest®

Premium **FISH** for Quality of Lives

**ENGLISH**

*For Professional Use Only*

# KMT2A-AFF1 Dual Fusion/Translocation FISH Probe Kit

## Introduction

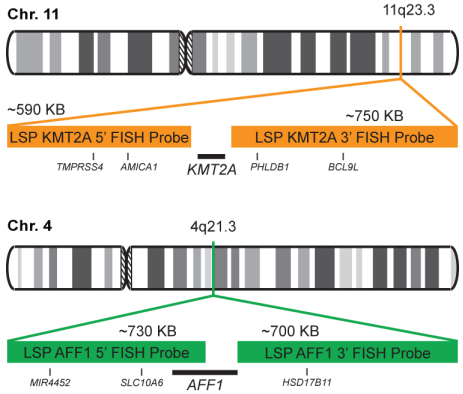
The KMT2A-AFF1 Fusion/Translocation FISH Probe Kit is designed to detect rearrangements involving the human KMT2A and AFF1 genes located on chromosome bands 11q23.3 and 4q21.3, respectively. Rearrangements between the two genes, the KMT2A gene – also known as HRX, MLL, MLL1, TRX1, ALL-1, CXXC7, HTRX1, MLL1A, WDSTS, MLL/GAS7 or TET1-MLL – and the AFF1 gene – also called AF4, PBM1 or MLLT2, have been observed in acute leukemias and other malignancies.

## Intended Use

To detect rearrangements involving the human *KMT2A* and *AFF1* genes located on chromosome bands 11q23.3 and 4q21.3, respectively.

| Cont. | Color |
|---|---|
| LSP KMT2A 5'-3' FISH Probe | CytoOrange |
| LSP AFF1 5'-3' FISH Probe | CytoGreen |

## Probe Design




*Not to Scale*

LSP KMT2A 5'-3' FISH Probe covers some sequences upstream (5' start) and downstream (3' end) of the *KMT2A* gene. LSP AFF1 5'-3' FISH Probe covers the 5' (start) portion of the *AFF1* gene and some sequences upstream, and it also covers some sequences downstream of the 3' end of the gene. The probe set is optimized to reveal translocations between the two regions.

| Cat. No. | Volume |
|---|---|
| CT-PAC307-10-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) Gu Y, et al. *Cell*. 71(4):701-8 (1992).
2) Young BD & Saha V. *Cancer Surv*. 28:225-45 (1996).
3) Bernard OA & Berger R. *Genes Chromosomes Cancer*. Jun;13(2):75-85 (1995).
4) Rubnitz JE, et al. *Leukemia*. 10(1):74-82 (1996).
5) Nilson I, et al. *Br J Haematol*. 98(1):157-69 (1997).


-25°C -15°C

CE 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.