

RPN1-MECOM Fusion/Translocation FISH Probe Kit

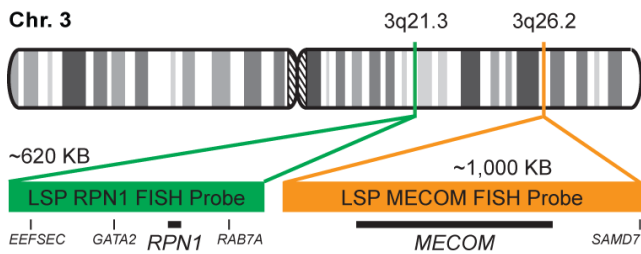
Introduction

The RPN1-MECOM Fusion/Translocation FISH Probe Kit is designed to detect rearrangements involving the human *RPN1* and *MECOM* genes located on chromosome bands 3q21.3 and 3q26.2, respectively. Rearrangements between the two genes, the *RPN1* gene – also known as *OST1* or *RBPH1* – and the *MECOM* gene – also called *EVI1*, *MDS1*, *PRDM3*, *MDS1-EVI1* or *AML1-EVI-1*, have been observed in acute myeloid leukemias (AML) and other malignancies.

Intended Use
To detect rearrangements involving the human <i>RPN1</i> and <i>MECOM</i> genes located on chromosome bands 3q21.3 and 3q26.2, respectively.

Cont.	Color
LSP RPN1 FISH Probe LSP MECOM FISH Probe	CytoGreen CytoOrange

Probe Design



LSP PRN1 FISH Probe covers a chromosomal region which includes the entire *PRN1* gene. LSP MECOM FISH Probe covers a chromosomal region which includes the entire *MECOM* gene. The probe set is optimized to reveal translocations between the two regions.

Not to Scale

Cat. No.	Volume
CT-PAC094-10-GO	10 Tests (100 µL)

Signal Pattern Interpretation	
<u>Normal Pattern</u> 2O + 2G*	<u>Abnormal Pattern</u> Other Patterns
*Overlapping orange and green signals can appear as yellow.	

1) O'Connor C. *Nature Education*. 1(1):171 (2008).
 2) Ried T, et al. *Hum Mol Genet*. 7(10):1619-26 (1998).
 3) Mark HF, et al. *Exp Mol Pathol*. 81(3):217-23 (2006).
 4) Shearer BM, et al. *Am J Hematol*. 85(8):569-74 (2010).
 5) De Braekeleer E, et al. *Anticancer Res*. 31(10):3441-8 (2011).



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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.