

## MLLT4 Break Apart FISH Probe Kit

### Introduction

The MLLT4 Break Apart FISH Probe Kit is designed to detect rearrangements in the human MLLT4 gene mapping to chromosome band 6q27. In addition to revealing breaks, which can lead to translocation of parts of the gene, inversion, or its fusion to other genes, the probe set can also be used to identify other MLLT4 aberrations such as deletions or amplifications. Rearrangements and abnormal expression of the MLLT4 gene – also known as AF6, AFDN, MLL-AF6 or I-afadin - have been observed in acute myeloid leukemia (AML) and other tumor types.

### Intended Use

To detect rearrangements in the human *MLLT4* gene mapping to chromosome band 6q27.

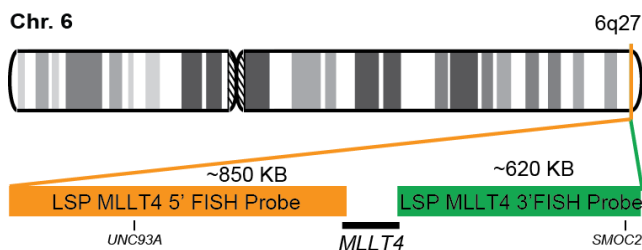
### Cont.

### Color

LSP MLLT4 5' FISH Probe  
LSP MLLT4 3' FISH Probe

CytoOrange  
CytoGreen

### Probe Design



Not to Scale

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 two probes are flanking a region in the *MLLT4* gene in which variable breakpoints have been observed.

### Cat. No.

### Volume

CT-PAC217-10-OG

10 Tests (100 µL)

### Signal Pattern Interpretation

#### Normal Patterns

2F\*

#### Abnormal Patterns

Other Patterns

\*Overlapping orange and green signals can appear as yellow.

1) Joh T, et al. *Oncogene*. 15(14):1681-7 (1997).  
2) Tanabe S, et al. *Genes Chromosomes Cancer*. 15(4):206-16 (1996).  
3) Prasad R, et al. *Cancer Res*. 53(23):5624-8 (1993).  
4) Pichler M, et al. *Clin Cancer Res*. 23(5):1323-1333 (2017).  
5) Yokoyama A, et al. *Cell*. 123(2):207-18 (2005).

\* 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.