

## TCF3 Break Apart FISH Probe Kit

### Introduction

The TCF3 Break Apart FISH Probe Kit is designed to detect rearrangements in the human *TCF3* gene located on chromosome band 19p13.3. 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 *TCF3* aberrations such as deletions or amplifications. Rearrangements and abnormal expression of the *TCF3* gene – also known as *E2A*, *E47*, *ITF1*, *VDIR*, *TCF-3* or *bHLHb21* – have been observed in adult and pediatric B-cell leukemias and other tumor types.

### Intended Use

To detect rearrangements in the human *TCF3* gene located on chromosome band 19p13.3.

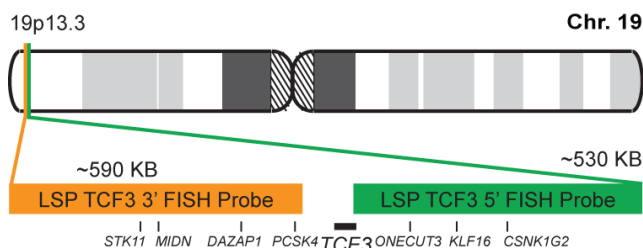
### Cont.

LSP TCF3 5' FISH Probe  
LSP TCF3 3' FISH Probe

### Color

CytoGreen  
CytoOrange

### Probe Design



Not to Scale

LSP TCF3 5' FISH Probe covers the 5' (start) portion of the *TCF3* gene and some adjacent genomic sequences. LSP TCF3 3' FISH Probe covers sequences downstream the 3' end of the gene. The two probes are flanking sequences across the *TCF3* gene in which variable breakpoints have been observed.

### Cat. No.

CT-PAC204-10-GO

### Volume

10 Tests (100 µL)

### Signal Pattern Interpretation

#### Normal Pattern

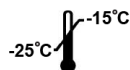
2OG\*

#### Abnormal Pattern

Other Patterns

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

- 1) Mathew S, et al. *Leukemia*. 15(3):468-72 (2001).
- 2) La Starza R, et al. *Leukemia*. 19(9):1696-9 (2005).
- 3) Yeung J, et al. *Haematologica*. 91(3):422-4 (2006).
- 4) Barber KE, et al. *Genes Chromosomes Cancer*. 46(5):478-86 (2007).
- 5) Slattery C, et al. *Int J Biochem Cell Biol*. 40(8):1431-6 (2008).



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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.

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