

## FUS Break Apart FISH Probe Kit

### Introduction

The FUS Break Apart FISH Probe Kit is designed to detect rearrangements in the human FUS gene located on chromosome band 16p11.2. 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 FUS aberrations such as deletions or amplifications. Rearrangements and abnormal expression of the FUS gene – also known as TLS, ALS6, ETM4, FUS1, POMP75 or HNRNPP2 – have been observed in alveolar rhabdomyosarcoma, prostate carcinoma and other tumor types.

### Intended Use

To detect rearrangements in the human *FUS* gene located on chromosome band 16p11.2.

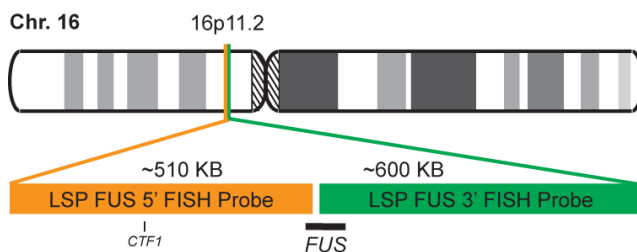
### Cont.

### Color

LSP FUS 5' FISH Probe  
LSP FUS 3' FISH Probe

CytoOrange  
CytoGreen

### Probe Design



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

Not to Scale

### Cat. No.

### Volume

CT-PAC053-10-OG

10 Tests (100 µL)

### Signal Pattern Interpretation

#### Normal Patterns

2F\*

#### Abnormal Patterns

Other Patterns

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

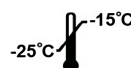
- 1) Crozat A, et al. *Nature*. 363(6430):640-4 (1993).
- 2) Panagopoulos I, et al. *Oncogene*. 15(11):1357-62 (1997).
- 3) Panagopoulos I, et al. *Biochem Biophys Res Commun*. 279(3):838-45 (2000).
- 4) Pérez-Losada J, et al. *Oncogene*. 19(52):6015-22 (2000).
- 5) Panagopoulos I, et al. *Genes Chromosomes Cancer*. 40(3):218-28 (2004).

\* 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.

DCN032

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