

# FUS Break Apart FISH Probe Kit

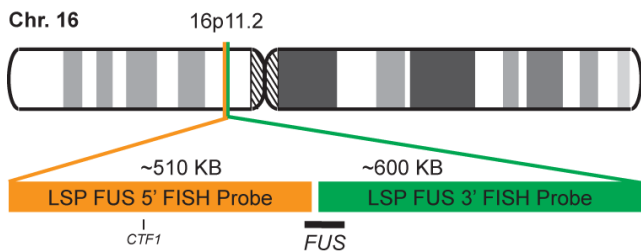
## Introduction

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 <i>FUS</i> gene located on chromosome band 16p11.2. |

| Cont.  | Color                   |
|--|-------------------------|
| LSP FUS 5' FISH Probe<br>LSP FUS 3' FISH Probe | CytoOrange<br>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                               |   |
|---|---|
| <u>Normal Pattern</u><br>2OG*                               | <u>Abnormal Pattern</u><br>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).



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