

# FUS-DDIT3 Fusion/Translocation FISH Probe Kit

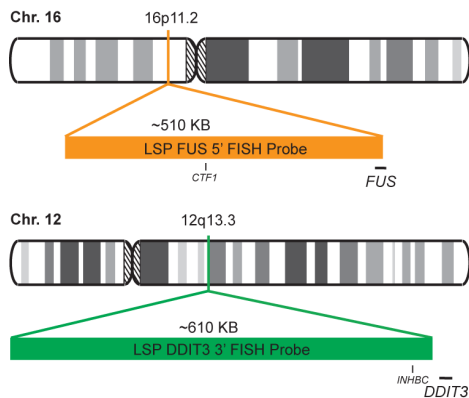
## Introduction

The FUS-DDIT3 Fusion/Translocation FISH Probe Kit is designed to detect rearrangements involving the human *FUS* and *DDIT3* genes located on chromosome bands 16p11.2 and 12q13.3, respectively. Rearrangements involving the two genes, *FUS* – also named *TLS* – and *DDIT3* – also known as *CHOP*, *CHOP-10*, *GADD153* or *C/EBP zeta*, have been observed in myxoid liposarcoma and other conditions.

Intended Use
To detect rearrangements involving the human <i>FUS</i> and <i>DDIT3</i> genes located on chromosome bands 16p11.2 and 12q13.3, respectively.

Cont.	Color
LSP FUS 5' FISH Probe LSP DDIT3 3' FISH Probe	CytoOrange CytoGreen

## Probe Design



LSP FUS 5' FISH Probe covers the 5' (start) portion of the *FUS* gene along with some upstream genomic sequences. LSP DDIT3 3' FISH Probe includes the sequences downstream of the 3' (end) of the *DDIT3* gene. The probe set is optimized to reveal translocations between the two gene regions.

Not to Scale

Cat. No.	Volume
CT-PAC077-10-OG	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) Panagopoulos I, et al. *Biochem Biophys Res Commun.* 279(3):838-45 (2000).
- 2) Pérez-Losada J, et al. *Oncogene.* 19(20):2413-22 (2000).
- 3) Pérez-Losada J, et al. *Oncogene.* 19(52):6015-22 (2000).
- 4) Storlazzi CT, et al. *Hum Mol Genet.* 12(18):2349-58 (2003).
- 5) Panagopoulos I, et al. *Genes Chromosomes Cancer.* 40(3):218-28 (2004).



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