

# DDIT3/CCP12 Tri-color Break Apart FISH Probe Kit

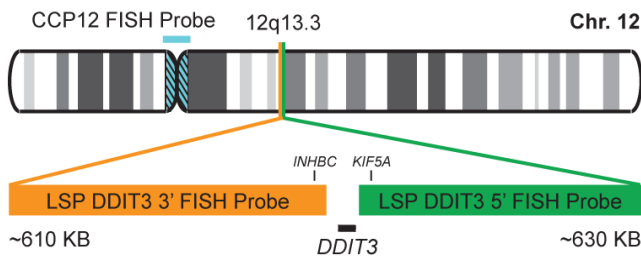
## Introduction

The DDIT3/CCP12 Tri-color Break Apart FISH Probe Kit is designed to detect rearrangements in the human *DDIT3* gene, located on chromosome band 12q13.3, along with the number of chromosome 12 copies per cell. 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 *DDIT3* aberrations such as deletions or amplifications. Rearrangements and abnormal expression of the *DDIT3* gene – also known as *CHOP*, *CEBPZ*, *CHOP10*, *CHOP-10* or *GADD153* – have been observed in myxoid liposarcoma and other malignancies.

Intended Use
To detect rearrangements in the human <i>DDIT3</i> gene located on chromosome band 12q13.3.

Cont.	Color
LSP DDIT3 5' FISH Probe LSP DDIT3 3' FISH Probe CCP12 FISH Probe	CytoGreen CytoOrange CytoAqua

## Probe Design



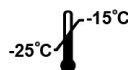
LSP DDIT3 5' FISH Probe covers some genomic sequences adjacent to the 5' end of the *DDIT3* gene. LSP DDIT3 3' FISH Probe covers some sequence downstream of the 3' end of the gene. The two probes are flanking sequences across the *DDIT3* gene in which variable breakpoints have been observed. CCP12 FISH Probe, derived from chromosome 12-specific alpha satellite DNA, is designed to serve as a control to determine the number of chromosome 12 copies per cell.

Not to Scale

Cat. No.	Volume
CT-PAC058-10-GOA	10 Tests (100 µL)

Signal Pattern Interpretation	
<u>Normal Pattern</u> 2O + 2G + 2A*	<u>Abnormal Pattern</u> Other Patterns
*Overlapping orange and green signals can appear as yellow.	

- 1) Panagopoulos I, et al. *Oncogene*. 12(3):489-94 (1996).
- 2) Panagopoulos I, et al. *Biochem Biophys Res Commun*. 279(3):838-45 (2000).
- 3) Pérez-Losada J, et al. *Oncogene*. 19(52):6015-22 (2000).
- 4) Pérez-Mancera PA, et al. *Oncogene*. 21(11):1679-84 (2002).
- 5) Rabbitts TH, et al. *Nat Genet*. 4(2):175-80 (1993).



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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.