

## CIC-DUX4 Dual Fusion/Translocation FISH Probe Kit

### Introduction

The CIC-DUX4 Dual Fusion/Translocation FISH Probe Kit is designed to detect rearrangements involving the human CIC and DUX4 gene located on chromosome bands 19q13.2 and 4q35.2, respectively. Fusions of the CIC gene – also known as MRD45 – with the DUX4 gene – also known as DUX4L – have been observed in Ewing-like sarcomas, oligodendroglioma and other cancers.

### Intended Use

To detect rearrangements involving the human *CIC* and *DUX4* genes located on chromosome bands 19q13.2 and 4q35.2, respectively.

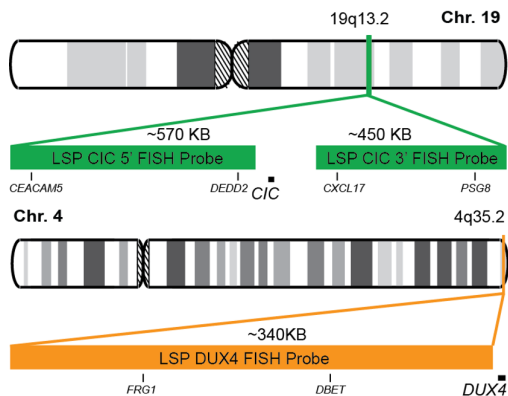
### Cont.

### Color

LSP CIC 5'-3' FISH Probe  
LSP DUX4 FISH Probe

CytoGreen  
CytoOrange

### Probe Design



LSP CIC 5'-3' FISH Probe covers genomic sequences upstream of the 5' (start) portion of the *CIC* gene and sequences downstream of the 3' end of the gene. The probe is flanking sequences across the *CIC* gene in which variable breakpoints have been observed. LSP DUX4 FISH Probe covers genomic sequences adjacent to the *DUX4* gene.

### Cat. No.

### Volume

CT-PAC237-10-GO

10 Tests (100 µL)

### Signal Pattern Interpretation

#### Normal Patterns

202G

#### Abnormal Patterns

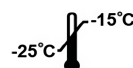
Other Patterns

- Yip S, et al. J Pathol. 226(1):7-16 (2012).
- Sugita S, et al. Am J Surg Pathol. 38(11):1571-6 (2014).
- Solomon DA, et al. Am J Surg Pathol. 38(12):1724-5 (2014).
- Gleize V, et al. Ann Neurol. 78(3):355-74 (2015).
- Italiano A, et al. Genes Chromosomes Cancer 51(3):207-18.

\* 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

© CytoTest Inc.



CytoTest Inc.  
1395 Piccard Drive, Suite 308  
Rockville, MD 20850, USA