

## PAX3-FOXO1 Fusion/Translocation FISH Probe Kit

### Introduction

The PAX3-FOXO1 Fusion/Translocation FISH Probe Kit is designed to detect rearrangements involving the human *PAX3* and *FOXO1* genes located on chromosome bands 2q36.1 and 13q14.11, respectively. Rearrangements between the two genes, the *PAX3* gene – also known as *WS1*, *WS3*, *CDHS* or *HUP2* – and the *FOXO1* gene – also called *FKH1*, *FKHR* or *FOXO1A*, have been observed in alveolar rhabdomyosarcoma (ARMS) and other tumor types and conditions.

### Intended Use

To detect rearrangements involving the human *PAX3* and *FOXO1* genes located on chromosome bands 2q36.1 and 13q14.11, respectively.

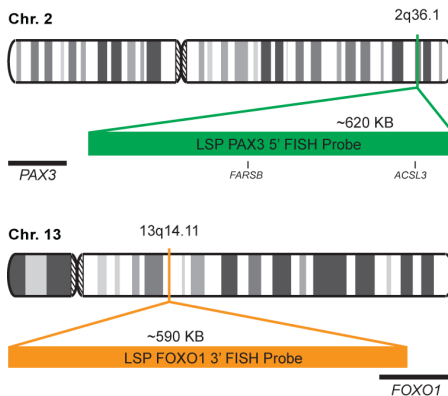
### Cont.

LSP PAX3 5' FISH Probe  
LSP FOXO1 3' FISH Probe

### Color

CytoGreen  
CytoOrange

### Probe Design



Not to Scale

LSP PAX3 5' FISH Probe covers some genomic sequences adjacent to the 5' (start) of the *PAX3* gene. LSP FOXO1 3' FISH Probe covers the 3' (end) part as well as sequences downstream of the *FOXO1* gene. The probe set is optimized to reveal translocations between the two regions.

### Cat. No.

CT-PAC087-10-GO

### Volume

10 Tests (100 µL)

### Signal Pattern Interpretation

#### Normal Pattern

2O + 2G\*

#### Abnormal Pattern

Other Patterns

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

- 1) Galili N, et al. *Nat Genet.* 5(3):230-5 (1993).
- 2) Davis RJ & Barr FG. *Proc Natl Acad Sci U S A.* 94(15):8047-51 (1997).
- 3) Barr FG. *Oncogene.* 20(40):5736-46 (2001).
- 4) Sorensen PH, et al. *J Clin Oncol.* 20(11):2672-9 (2002).
- 5) Robson EJ, et al. *Nat Rev Cancer.* 6(1):52-62 (2006).



CytoTest Inc.  
9430 Key West Ave., Suite 210  
Rockville, MD 20850, USA

\* 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.

### India Contact:

#### Life Technologies (India) Pvt. Ltd.

306, Aggarwal City Mall, Opposite M2K Pitampura, Delhi – 110034 (INDIA). Ph: +91-11-42208000, 42208111, 42208222, Mobile: +91-9810521400, Fax: +91-11-42208444  
Email: [customerservice@lifetechindia.com](mailto:customerservice@lifetechindia.com) Website: [www.lifetechindia.com](http://www.lifetechindia.com)