

# 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

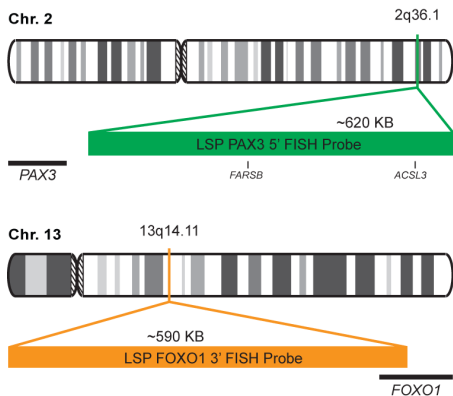
To detect rearrangements involving the human *PAX3* and *FOXO1* genes located on chromosome bands 2q36.1 and 13q14.11, respectively.

Cont.	Color
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LSP PAX3 5' FISH Probe  
LSP FOXO1 3' FISH Probe

CytoGreen  
CytoOrange

## Probe Design



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.	Volume
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CT-PAC087-10-GO

10 Tests (100 µL)

## Signal Pattern Interpretation

Normal Pattern

2O + 2G\*

Abnormal Pattern

Other Patterns

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

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



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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.