

PAX7-FOXO1 Fusion/Translocation FISH Probe Kit

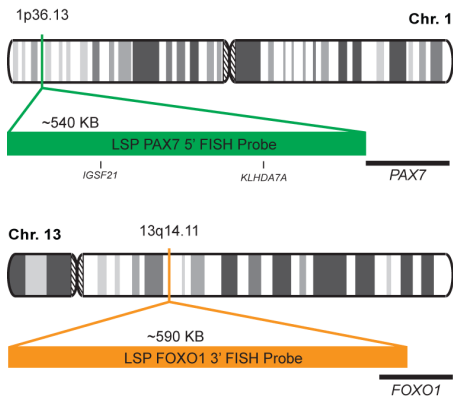
Introduction

The PAX7-FOXO1 Fusion/Translocation FISH Probe Kit is designed to detect rearrangements involving the human *PAX7* and *FOXO1* genes located on chromosome bands 1p36.13 and 13q14.11, respectively. Rearrangements between the two genes, the *PAX7* gene – also known as *HUP1*, *RMS2* or *PAX7B* – 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 <i>PAX7</i> and <i>FOXO1</i> genes located on chromosome bands 1p36.13 and 13q14.11, respectively. |

| Cont. | Color |
|---|-------------------------|
| LSP PAX7 5' FISH Probe LSP FOXO1 3' FISH Probe | CytoGreen CytoOrange |

Probe Design



LSP PAX7 5' FISH Probe covers some genomic sequences adjacent to the 5' end of the *PAX7* 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.

Not to Scale

| Cat. No. | Volume |
|-----------------|-------------------|
| CT-PAC089-10-GO | 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) Barr FG, et al. *Cancer Res.* 59(21):5443-8 (1999).
- 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).



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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.