

# PAX7 Break Apart FISH Probe Kit

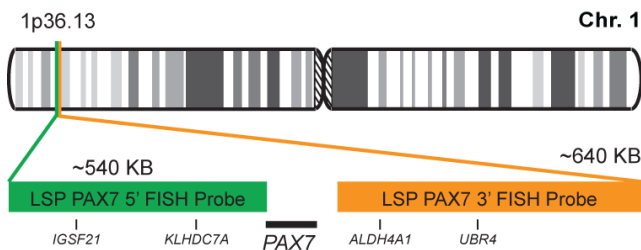
## Introduction

The PAX7 Break Apart FISH Probe Kit is designed to detect rearrangements in the human *PAX7* gene located on chromosome band 1p36.13. 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 *PAX7* aberrations such as deletions or amplifications. Rearrangements and abnormal expression of the *PAX7* gene – also known as *HUP1*, *RMS2* or *PAX7B* – have been observed in alveolar rhabdomyosarcoma (ARMS) and other tumor types and conditions.

Intended Use
To detect rearrangements in the human <i>PAX7</i> gene located on chromosome band 1p36.13.

Cont.	Color
LSP PAX7 5' FISH Probe LSP PAX7 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 PAX7 3' FISH Probe covers some sequence downstream of the 3' end of the gene. The two probes are flanking an area across the *PAX7* gene in which variable breakpoints have been observed.

Not to Scale

Cat. No.	Volume
CT-PAC088-10-GO	10 Tests (100 µL)

Signal Pattern Interpretation	
<u>Normal Pattern</u> 2OG*	<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.