

PAX3 Break Apart FISH Probe Kit

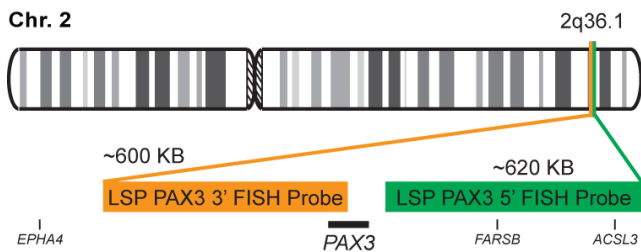
Introduction

The PAX3 Break Apart FISH Probe Kit is designed to detect rearrangements in the human *PAX3* gene located on chromosome band 2q36.1. 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 *PAX3* aberrations such as deletions or amplifications. Rearrangements and abnormal expression of the *PAX3* gene – also known as *WS1*, *WS3*, *CDHS* or *HUP2* – have been observed in alveolar rhabdomyosarcoma (ARMS) and other tumor types and conditions.

Intended Use
To detect rearrangements in the human <i>PAX3</i> gene located on chromosome band 2q36.1.

Cont.	Color
LSP PAX3 5' FISH Probe LSP PAX3 3' FISH Probe	CytoGreen CytoOrange

Probe Design



LSP PAX3 5' FISH Probe covers some sequences upstream (5' start) of the *PAX3* gene. LSP PAX3 3' FISH Probe covers the 3' (end) portion of the gene and some adjacent genomic sequences. The two probes are flanking an area across the *PAX3* gene in which variable breakpoints have been observed.

Not to Scale

Cat. No.	Volume
CT-PAC086-10-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) 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).



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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.