

TFE3 Break Apart FISH Probe Kit

Introduction

The TFE3 Break Apart FISH Probe Kit is designed to detect rearrangements in the human TFE3 gene located on chromosome band Xp11.23. 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 TFE3 aberrations such as deletions or amplifications. Rearrangements and abnormal expression of the TFE3 gene – also known as TFEA, RCCP2, RCCX1 or bHLHe33 – have been observed in renal cell carcinoma subtypes, alveolar soft part carcinoma, and other tumor types.

Intended Use

To detect rearrangements in the human *TFE3* gene located on chromosome band Xp11.23.

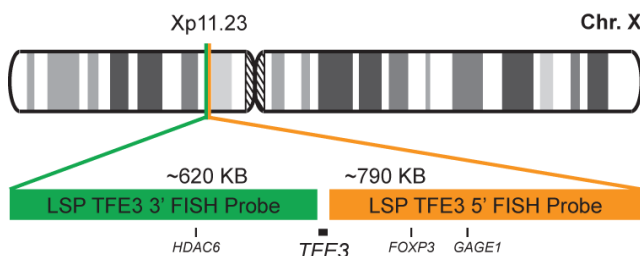
Cont.

Color

LSP TFE3 5' FISH Probe
LSP TFE3 3' FISH Probe

CytoOrange
CytoGreen

Probe Design



LSP TFE3 5' FISH Probe covers the 5' (start) portion of the *TFE3* gene and some adjacent genomic sequences. LSP TFE3 3' FISH Probe covers the 3' (end) part as well as sequences downstream of the gene. The two probes are flanking sequences across the *TFE3* gene in which variable breakpoints have been observed.

Not to Scale

Cat. No.

Volume

CT-PAC013-10-OG

10 Tests (100 µL)

Signal Pattern Interpretation

Normal Patterns

2F*

Abnormal Patterns

Other Patterns

*Overlapping orange and green signals can appear as yellow.

1) Henthorn PS, et al. *Genomics*. 11(2):374-8 (1991).
2) Numakura K, et al. *Int J Clin Oncol*. 16(5):577-80 (2011).
3) Malouf GG, et al. *Ann Oncol*. 21(9):1834-8 (2010).
4) Aulmann S, et al. *Histopathology*. 50(7):881-6 (2007).
5) Rao Q, et al. *Am J Surg Pathol*. 37(6):804-15 (2013).

* 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.