CytoTest®
Premium **FISH** for Quality of Lives

ENGLISH

For Professional Use Only

TGFBR3 Break Apart FISH Probe Kit

Introduction

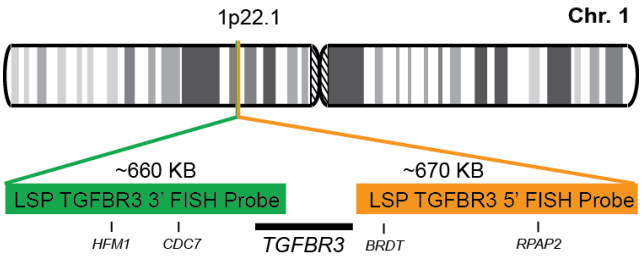
The TGFBR3 Break Apart FISH Probe Kit is designed to detect rearrangements in the human TGFBR3 gene located on chromosome band 1p22.1. In addition to revealing breaks, which can lead to translocation of parts of the gene, inversion, or its fusion to other genes, the probe set can also be used to identify other TGFBR3 aberrations such as deletions or amplifications. Rearrangements and abnormal expression of the TGFBR3 gene – also known as BGCAN or betaglycan – are frequent found in some fibroblastic and fibrolipomatous sarcomas and are also found in multiple myeloma and many other malignancies, including breast, colorectal, hepatocellular, oral, lung, prostate, ovarian, pancreatic and other cancers.

Intended Use

To detect rearrangements in the human *TGFBR3* gene located on chromosome band 1p22.1.

Cont.	Color
LSP TGFBR3 5' FISH Probe	CytoOrange
LSP TGFBR3 3' FISH Probe	CytoGreen

Probe Design



Not to Scale

LSP TGFBR3 5' FISH Probe covers some genomic sequences adjacent to the 5' end of the *TGFBR3* gene. LSP TGFBR 3' FISH Probe covers the 3' end and some sequence downstream of the gene. The two probes are flanking sequences across the *TGFBR3* gene in which variable breakpoints have been observed.

Cat. No.	Volume
CT-PAC246-10-OG	10 Tests (100 µL)

Signal Pattern Interpretation

Normal Patterns	Abnormal Patterns
2F*	Other Patterns

*Overlapping orange and green signals can appear as yellow.

1) Finger EC, et al. *Carcinogenesis* 29(3):528-35 (2008).
2) Dong M, et al. *J. Clin. Invest.* 117(1):206-17 (2007).
3) Antonescu CR, et al. *Genes Chromosomes Cancer* 50(10):757-64 (2011).
4) Kao YC, et al. *Am. J. Surg. Pathol.* 41(11):1456-1465 (2017).
5) Liu H, et al. *Arch. Pathol. Lab. Med.* https://doi.org/10.5858/arpa.2017-0412-RA (2018).

-25°C -15°C IVD

CytoTest Inc.
1395 Piccard Drive, Suite 308
Rockville, MD 20850, USA

* 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.