

TGFB3-MGEA5 Dual Fusion/Translocation FISH Probe Kit

Introduction

The TGFB3-MGEA5 Dual Fusion/Translocation FISH Probe Kit is designed to detect rearrangements involving the human TGFB3 and MGEA5 genes, located on chromosome bands 1p22.1 and 10q24.32, respectively. TGFB3 is also known as BGCAN or betaglycan. MGEA5 is also known as OGA, MEA5 or NCOAT. Rearrangements involving portions of both genes are frequent 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 involving the human *TGFB3* and *MGEA5* genes, located on chromosome bands 1p22.1 and 10q24.32.

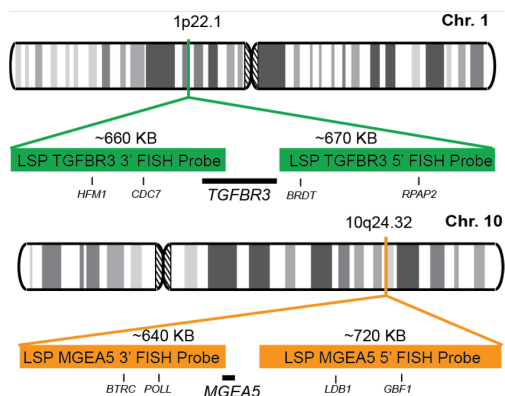
Cont.

Color

LSP TGFB3 5'-3' FISH Probe
LSP MGEA5 5'-3' FISH Probe

CytoGreen
CytoOrange

Probe Design



Not to Scale

LSP TGFB3 5'-3' FISH Probe covers some genomic sequences adjacent to the 5' end of the *TGFB3* gene, and the 3' end and some sequence downstream of the gene. LSP MGEA5 5'-3' FISH Probe covers some genomic sequences adjacent to the 5' end of the *MGEA5* gene, and the 3' end and some sequence downstream of the gene. The probe set is optimized to reveal translocations between the two genes.

Cat. No.

Volume

CT-PAC248-10-GO

10 Tests (100 µL)

Signal Pattern Interpretation

Normal Patterns

202G

Abnormal Patterns

Other Patterns

- 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).

* 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.

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