

MEF2D Break Apart FISH Probe Kit

Introduction

The MEF2D Break Apart FISH Probe Kit is designed to detect rearrangements in the human *MEF2D* gene located on chromosome band 1q22. 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 *MEF2D* aberrations such as deletions or amplifications. Rearrangements and altered expression of this gene have been observed in acute lymphoblastic leukemia and other malignancies.

Intended Use

To detect rearrangements the human *MEF2D* gene located on chromosome band 1q22.

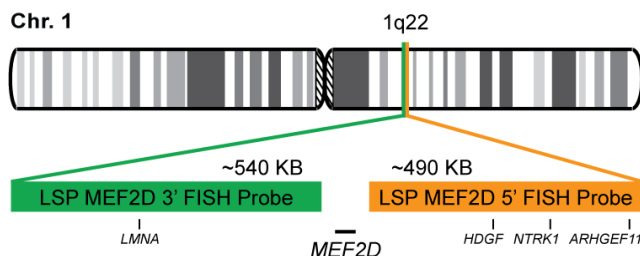
Cont.

Color

LSP MEF2D 5' FISH Probe
LSP MEF2D 3' FISH Probe

CytoOrange
CytoGreen

Probe Design



Not to Scale

LSP MEF2D 5' FISH Probe covers some genomic sequences adjacent to the 5' (start) portion of the *MEF2D* gene. LSP MEF2D 3' FISH Probe covers sequences downstream of the 3' end of the gene. The two probes are flanking sequences across the *MEF2D* gene in which variable breakpoints have been observed.

Cat. No.

Volume

CT-PAC426-10-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) Zhao L, et al. *Blood Adv.* 5(22):4727-4740 (2021).
2) Sun J, et al. *Ann Hematol.* 99(1):185-188 (2020).
3) Suzuki K, et al. *J Clin Oncol.* 34(28):3451-9 (2016).
4) Prima V, et al. *Leukemia.* 19(5):806-13 (2005).
5) Song L, et al. *Tumour Biol.* 37(3):2891-900 (2016).

* 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.