

# MN1 Break Apart FISH Probe Kit

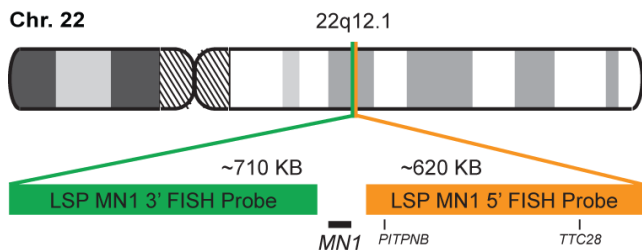
## Introduction

The MN1 Break Apart FISH Probe Kit is designed to detect rearrangements in the human *MN1* gene located on chromosome band 22q12.1. 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 *MN1* aberrations such as deletions or amplifications. Rearrangements and abnormal expression of the *MN1* gene – also known as *dJ353E16.2*, *MGCR1-PEN*, *MGCR1* or *MGCR* – have been observed in myelodysplastic syndrome (MDS), acute myeloid leukemia (AML), meningioma and other malignancies.

Intended Use
To detect rearrangements in the human <i>MN1</i> gene located on chromosome band 22q12.1.

Cont.	Color
LSP MN1 5' FISH Probe LSP MN1 3' FISH Probe	CytoOrange CytoGreen

## Probe Design



LSP MN1 5' FISH Probe covers sequences adjacent to the 5' (start) portion of the *MN1* gene. LSP MN1 3' FISH Probe covers some sequences downstream (3' end) of the gene. The two probes are flanking sequences across the *MN1* gene in which variable breakpoints have been observed.

Not to Scale

Cat. No.	Volume
CT-PAC112-10-OG	10 Tests (100 µL)

Signal Pattern Interpretation	
<u>Normal Patterns</u> 2F*	<u>Abnormal Patterns</u> Other Patterns

\*Overlapping orange and green signals can appear as yellow.

- 1) Buijs A, et al. *Oncogene*. 10(8):1511-9 (1995).
- 2) Lekanne Deprez RH, et al. *Oncogene*. 10(8):1521-8 (1995).
- 3) Heuser M, et al. *Blood*. 110(5):1639-47 (2007).
- 4) Nofrini V, et al. *Leuk Res*. 35(7):e123-6 (2011).
- 5) Aref S, et al. *Hematology*. 18(5):277-83 (2013).



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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.