

# NUP214 Break Apart FISH Probe Kit

## Introduction

The NUP214 Break Apart FISH Probe Kit is designed to detect rearrangements in the human NUP214 gene located on chromosome band 9q34.13. 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 NUP214 aberrations such as deletions or amplifications. Rearrangements and abnormal expression of the NUP214 gene – also called CAN, CAIN, or D9S46E – have been observed in childhood and adult acute and chronic leukemias, in myelodysplastic syndrome (MDS) and many other hematological malignancies.

## Intended Use

To detect rearrangements in the human *NUP214* gene located on chromosome band 9q34.13.

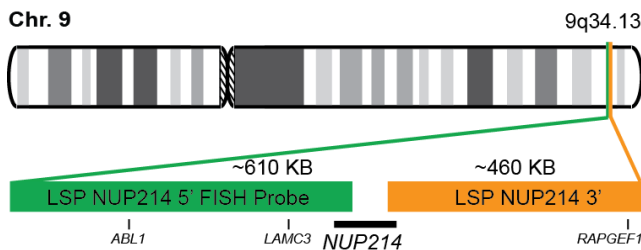
## Cont.

LSP NUP214 5' FISH Probe  
LSP NUP214 3' FISH Probe

## Color

CytoGreen  
CytoOrange

## Probe Design



LSP NUP214 5' FISH Probe covers the 5' (start) portion of the *NUP214* gene and some adjacent genomic sequences. LSP NUP214 3' FISH Probe covers the 3' (end) part as well as sequences downstream of the gene. The two probes are flanking sequences across the *NUP214* gene in which variable breakpoints have been observed.

Not to Scale

## Cat. No.

CT-PAC332-10-GO

## Volume

10 Tests (100 µL)

## Signal Pattern Interpretation

### Normal Patterns

2F\*

### Abnormal Patterns

Other Patterns

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

1) Pearson MG, et al. *Am J Hematol.* 18(4):393-403 (1985).  
2) Lillington DM, et al. *Leukemia.* 7(4):527-31 (1993).  
3) Oyarzo MP, et al. *Am J Clin Pathol.* 122(3):348-58 (2004).  
4) Slovak ML, et al. *Leukemia.* 20(7):1295-7 (2006).  
5) Koleva RI, et al. *Blood.* 119(21):4878-88 (2012).

\* 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.