CytoTest®

Premium **FISH** for Quality of Lives

**ENGLISH**

*For Professional Use Only*

# DEK-NUP214 Fusion/Translocation FISH Probe Kit

## Introduction

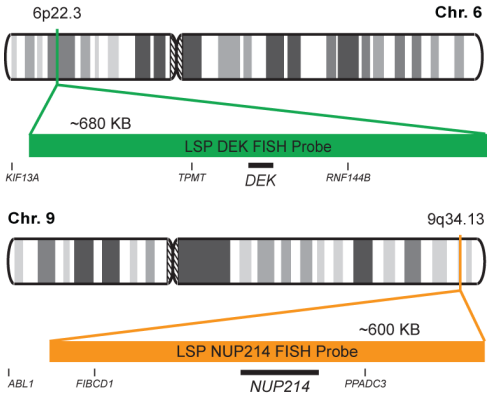
The DEK-NUP214 Fusion/Translocation FISH Probe Kit is designed to detect rearrangements involving the human *DEK* and *NUP214* genes located on chromosome bands 6p22.3 and 9q34.13, respectively. Rearrangements involving portions of these two genes, the *DEK* gene – also known as *D6S231E* – and the *NUP214* gene – also called *CAN*, *CAIN*, or *D9S46E*, have been observed in acute myeloid leukemia (AML), myelodysplastic syndrome (MDS) and many other hematological malignancies.

## Intended Use

To detect rearrangements involving the human *DEK* and *NUP214* genes located on chromosome bands 6p22.3 and 9q34.13, respectively.

| Cont. | Color |
|---|---|
| LSP DEK FISH Probe | CytoGreen |
| LSP NUP214 FISH Probe | CytoOrange |

## Probe Design




*Not to Scale*

LSP DEK FISH Probe covers the entire *DEK* gene along with some upstream (5') and downstream (3') flanking genomic sequences. LSP NUP214 FISH Probe spans the complete *NUP214* gene, as well as adjacent 5' and 3' genomic sequences. The probe set is optimized to reveal the typical t(6;9)(p22;q34) translocation as well as other translocations between the two genes.

| Cat. No. | Volume |
|---|---|
| CT-PAC109-10-GO | 10 Tests (100 µL) |

## Signal Pattern Interpretation

| Normal Patterns | Abnormal Patterns |
|---|---|
| 2O2G* | 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).


-25°C -15°C CE IVD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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.

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