

## NSD1/D5S23, D5S721 FISH Probe Kit

### Introduction

The NSD1/D5S23,D5S721 FISH Probe Kit is designed to detect the human *NSD1* gene located on chromosome band 5q35.3, along with the human D5S23,D5S721 region located on chromosome band 5p15.2. Abnormal expression or rearrangements of the *NSD1* gene – also known as *STO*, *KMT3B*, *SOTOS*, *ARA267* or *SOTOS1* – have been observed in acute myeloid leukemia (AML), other neoplasms and some inherited defects such as Sotos syndrome and Weaver syndrome.

### Intended Use

To measure the integrity and copy number of the human *NSD1* gene located on chromosome band 5q35.3, and of the D5S23-D5S721 STS marker region on chromosome band 5p15.2

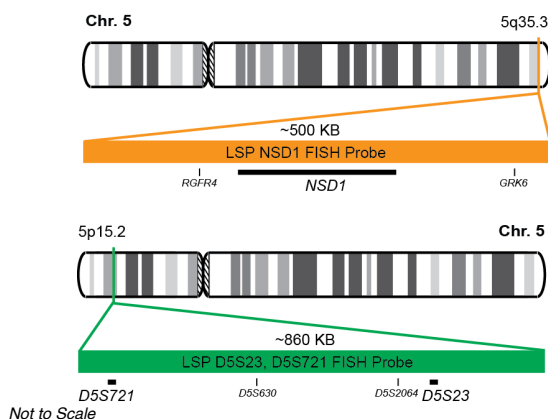
### Cont.

### Color

LSP NSD1 FISH Probe  
LSP D5S23,D5S721 FISH Probe

CytoOrange  
CytoGreen

### Probe Design



LSP NSP1 FISH Probe covers a chromosomal region which includes the entire *NSD1* gene. LSP D5S23, D5S721 FISH Probe, covering a chromosomal region around the D5S23 and D5S721 STS markers located at 5p15.2, is designed to serve as a control to determine the number of chromosome 5 copies per cell. It also aids in distinguishing whole chromosome 5 losses from losses of chromosome arm 5q.

### Cat. No.

### Volume

CT-PAC372-10-OG

10 Tests (100 µL)

### Signal Pattern Interpretation

#### Normal Patterns

2O2G

#### Abnormal Patterns

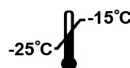
Other Patterns

- 1) Kurotaki N., et al. *Gene* 279(2):197-2004 (2001).
- 2) Douglas J. et al. *Am J Hum Genet.* 72(1):132-43 (2003)
- 3) Höglund P. et al. *J Med Genet.* 40(1):51-4 (2003).
- 4) Jaju R.J. et al. *Blood* 98(4):1264-7 (1999).
- 5) Türkmen S. et al. *Eur J Hum Genet.* 11(11):858-65 (2003).

\* 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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