

NSD1/TERT FISH Probe Kit

Introduction

The NSD1/TERT FISH Probe Kit is designed to detect the human *NSD1* gene located on chromosome band 5q35.3, along with the human *TERT* gene on chromosome band 5p15.33. Gains and losses of portions of the *TERT* gene – also known as *TP2*, *TRT*, *CMM9*, *EST2*, *TCS1*, *hTERT*, *DKCA2*, *DKCB4*, *hEST2* or *PFBMFT1* – have been reported in a variety of tumor types. Abnormal expression or rearrangements of the *NSD1* gene – also known as *STO*, *KMT3B*, *SOTOS*, *ARA267* or *SOTOS1* – has 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 *TERT* gene on band 5p15.33.

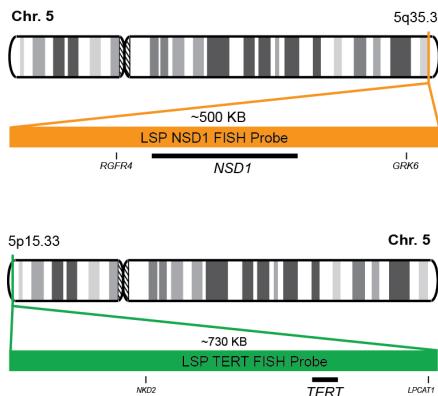
Cont.

LSP NSD1 FISH Probe
LSP TERT FISH Probe

Color

CytoOrange
CytoGreen

Probe Design



Not to Scale

LSP NSD1 FISH Probe covers a chromosomal region which includes the entire *NSD1* gene. LSP TERT FISH Probe covers a chromosomal region which includes the entire *TERT* gene, and can also 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.

CT-PAC371-10-OG

Volume

10 Tests (100 µL)

Signal Pattern Interpretation

Normal Patterns

2O2G

Abnormal Patterns

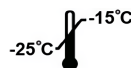
Other Patterns

- 1) Douglas J. et al. *Am J Hum Genet.* 72(1):132-43 (2003)
- 2) Höglund P, et al. *J Med Genet.* 40(1):51-4 (2003).
- 3) Heselmeyer K, et al. *Proc Natl Acad Sci U S A.* 93(1):479-84 (1996).
- 4) Jaju R.J, et al. *Blood* 98(4):1264-7 (1999).
- 5) Visnovsky J, et al. *Neuro Endocrinol Lett.* 35(6):518-22 (2014).

* 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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