

NELFA/CCP4 FISH Probe Kit

Introduction

The NELFA/CCP4 FISH Probe Kit is designed to detect the human *NELFA* gene located on chromosome band 4p16.3, along with the number of chromosome 4 copies per cell. Altered expression of this gene – also known as *WHSC2*, *NELF-A* or *P/OKcl.15* – has been observed in some malignancies. The gene is also located within the critical region of which various lengths are typically deleted in Wolf-Hirschhorn syndrome (WHS) and Pitt-Rogers-Danks microdeletion syndrome individuals. The probe also covers most of the region of the *NSD2* gene - also called *WHS*, *TRX5*, *KMT3F*, *KMT3G*, *MMSET*, *WHSC1* or *REIIBP*.

Intended Use

To measure the copy number of the human *NELFA* gene located on chromosome band 4p16.3.

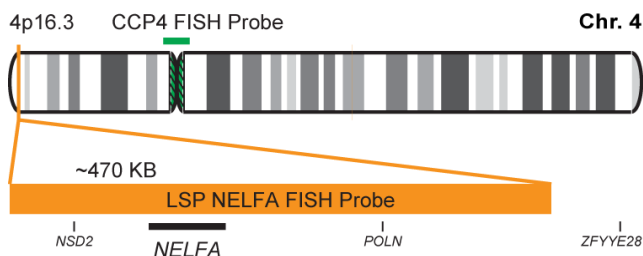
Cont.

LSP NELFA FISH Probe
CCP4 FISH Probe

Color

CytoOrange
CytoGreen

Probe Design



Not to Scale

LSP NELFA FISH Probe covers a chromosomal region, which includes the entire *NELFA* gene and some 5' and 3' adjacent genomic sequences. CCP4 FISH Probe, derived from chromosome 4-specific alpha satellite DNA, is designed to serve as a control to determine the number of chromosome 4 copies per cell.

Cat. No.

CT-PAC432-10-OG

Volume

10 Tests (100 µL)

Signal Pattern Interpretation

Normal Patterns

202G

Abnormal Patterns

Other Patterns

- 1) Rauch A, et al. Am. J. Med. Genet. 99(4):338-42 (2001).
- 2) Kant SG, et al. J. Med. Genet. 34(7):569-572 (1997).
- 3) Sheth F, et al. BCase Reo. Genet. 2012: 878796 (2012).
- 4) Zollino M, et al. Am. J. Hum. Genet. 72(3):590-597 (2003).
- 5) Andersen EF, et al. Eur. J. Hum. Genet. 22(4):464-70 (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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