

TWIST1/ELN FISH Probe Kit

Introduction

The TWIST1/ELN FISH Probe Kit is designed to detect the human *TWIST1* gene located on chromosome band 7p21.1 and the human *ELN* gene region located on chromosome band 7q11.23 as a control to determine the number of chromosome 7 or chromosome 7 q-arm copies per cell. Copy number variation, abnormal expression and mutations of the *TWIST1* gene – also known as CRS, CSO, SCS, ACS3, CRS1, BPES2, BPES3, SWCOS, TWIST or bHLHa38 – cause Saethre-Chotzen syndrome and have been observed in a variety of tumor types, such as gastric cancer, esophageal cancer, and other conditions.

Intended Use

To measure the copy number of the human *TWIST1* gene located on chromosome band 7p21.1.

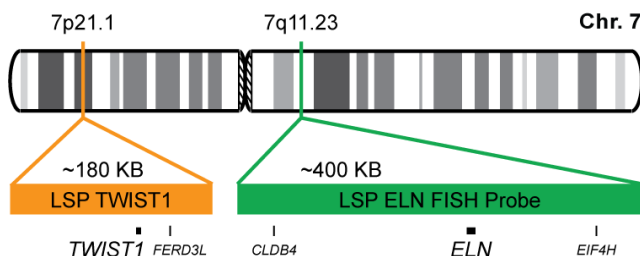
Cont.

Color

LSP TWIST1 FISH Probe
LSP ELN FISH Probe

CytoOrange
CytoGreen

Probe Design



Not to Scale

LSP TWIST1 FISH Probe covers a chromosomal region, which includes the entire *TWIST1* gene along with some flanking genomic sequences. LSP ELN FISH Probe covers the entire *ELN* gene.

Cat. No.

Volume

CT-PAC470-10-OG

10 Tests (100 µL)

Signal Pattern Interpretation

Normal Patterns

202G

Abnormal Patterns

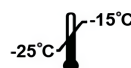
Other Patterns

1. Khan MA, et al. *Oncotarget*. 6(23):19580-91 (2015).
2. Finlay J, et al. *Nanomedicine*. 11(7):1657-66 (2015).
3. Lee YH, et al. *J Formos Med Assoc*. 115(5):311-7 (2016).
4. Mirjat D, et al. *Int J Mol Sci*. 24(24):17539 (2023).
5. Khot M, et al. *Hum Mol Genet*. 29(10):1673-1688 (2020).

* 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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