

CCDC6-RET Fusion/Translocation FISH Probe Kit

Introduction

The CCDC6-RET Fusion/Translocation FISH Probe Kit is designed to detect rearrangements involving the human *CCDC6* and *RET* genes located on chromosome bands 10q21.2 and 10q11.21, respectively. Rearrangements between the two genes, the *CCDC6* gene – also called *D10S170*, *H4*, *PTC*, *TPC* or *TST1* – and the *RET* gene – also known as *PTC*, *MTC1*, *HSCR1*, *MEN2A*, *MEN2B*, *RET51*, *CDHF12*, *CDHR16* or *RET-ELE1*, have been observed in a subtype of papillary thyroid carcinoma (PTC1).

Intended Use

To detect rearrangements involving the human *CCDC6* and *RET* genes located on chromosome bands 10q21.2 and 10q11.21, respectively.

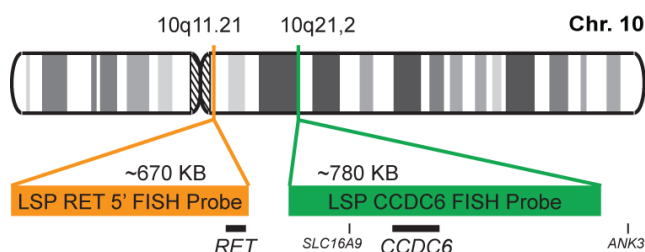
Cont.

Color

LSP CCDC6 FISH Probe
LSP RET 5' FISH Probe

CytoGreen
CytoOrange

Probe Design



Not to Scale

LSP CCDC6 FISH Probe covers a chromosomal region which includes the entire *CCDC6* gene. LSP RET 5' FISH Probe covers the entire *RET* gene as well as sequences upstream (5') of the gene. The probe set is optimized to reveal translocations between the two genes.

Cat. No.

Volume

CT-PAC079-10-GO

10 Tests (100 µL)

Signal Pattern Interpretation

Normal Pattern

2O + 2G*

Abnormal Pattern

Other Patterns

*Overlapping orange and green signals can appear as yellow.

- 1) Pierotti MA, et al. *Proc Natl Acad Sci U S A*. 89(5):1616-20 (1992).
- 2) Grieco M, et al. *Oncogene*. 9(9):2531-5 (1994).
- 3) Portella G, et al. *Oncogene*. 13(9):2021-6 (1996).
- 4) Tong Q, et al. *J Biol Chem*. 272(14):9043-7 (1997).
- 5) Kulkarni S, et al. *Cancer Res*. 60(13):3592-8 (2000).

* 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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