

## FGFR4 Break Apart FISH Probe Kit

### Introduction

The FGFR4 Break Apart FISH Probe Kit is designed to detect rearrangements in the human FGFR4 gene located on chromosome band 5q35.2. In addition to revealing breaks, which can lead to translocation of parts of the gene, inversion, or its fusion to other genes, the probe set can also be used to identify other FGFR4 aberrations such as deletions or amplifications. Rearrangements and abnormal expression of the FGFR4 gene – also known as CD334, JTK2 or TKF – have been observed in various cancer types such as prostate cancer, melanoma, hepatocellular carcinoma, lung cancer, breast cancer, gastric cancer, colorectal cancer, pancreatic cancer and others.

### Intended Use

To detect rearrangements in the human *FGFR4* gene located on chromosome band 5q35.2.

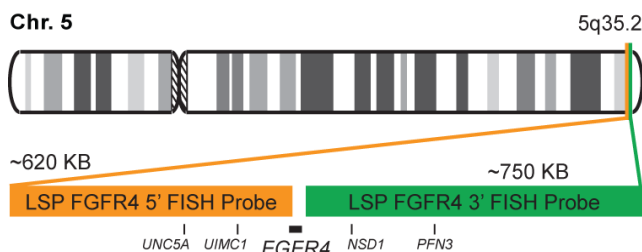
### Cont.

### Color

LSP FGFR4 5' FISH Probe  
LSP FGFR4 3' FISH Probe

CytoOrange  
CytoGreen

### Probe Design



LSP FGFR4 5' FISH Probe covers sequences adjacent to the 5' (start) portion of the *FGFR4* gene. LSP FGFR4 3' FISH Probe covers some sequences downstream (3' end) of the gene. The two probes are flanking sequences across the *FGFR4* gene in which variable breakpoints have been observed.

Not to Scale

### Cat. No.

### Volume

CT-PAC133-10-OG

10 Tests (100 µL)

### Signal Pattern Interpretation

#### Normal Patterns

2F\*

#### Abnormal Patterns

Other Patterns

\*Overlapping orange and green signals can appear as yellow.

1) Partanen J, et al. *EMBO J.* 10(6):1347-54 (1991).  
2) Okada A, et al. *Proc Natl Acad Sci U S A.* 92(7):2730-4 (1995).  
3) Shah RN, et al. *Oncogene.* 21(54):8251-61 (2002).  
4) Ruhe JE, et al. *Cancer Res.* 67(23):11368-76 (2007).  
5) Xu W, et al. *Eur J Cancer.* 46(18):3332-8 (2010).

\* 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.