

## FGF1 Break Apart FISH Probe Kit

### Introduction

The FGF1 Break Apart FISH Probe Kit is designed to detect rearrangements in the human FGF1 gene located on chromosome band 5q31.3. 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 FGF1 aberrations such as deletions or amplifications. Rearrangements and abnormal expression of the FGF1 gene – also known as AFGF, ECGF, ECGF-beta, ECGFA, ECGFB, FGF-1, FGF-alpha, FGFA, GLIO703, HBGF-1 or HBGF1 – have been observed in gastrointestinal tumors, breast cancer and other solid tumor types, and other conditions such as nerve injury and cardiac ischemia.

### Intended Use

To detect rearrangements in the human *FGF1* gene located on chromosome band 5q31.3.

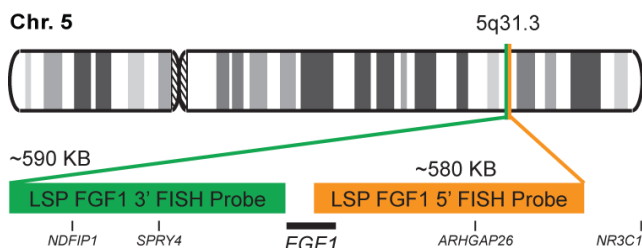
### Cont.

### Color

LSP FGF1 5' FISH Probe  
LSP FGF1 3' FISH Probe

CytoOrange  
CytoGreen

### Probe Design



Not to Scale

LSP FGF1 5' FISH Probe covers the 5' portion of the *FGF1* gene and some adjacent genomic sequences. LSP FGF1 3' FISH Probe covers the sequences downstream (3') of the gene. The two probes are flanking sequences across the *FGF1* gene in which variable breakpoints have been observed.

### Cat. No.

### Volume

CT-PAC159-10-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) Gospodarowicz D. *Nature*. 249(453):123-7 (1974).  
2) Pellegrini L, et al. *Nature*. 407(6807):1029-34 (2000).  
3) Olsen SK, et al. *Proc Natl Acad Sci U S A*. 101(4):935-40 (2004).  
4) Beenken A & Mohammadi M. *Nat Rev Drug Discov*. 8(3):235-53 (2009).  
5) Itoh N & Ornitz DM. *J Biochem*. 149(2):121-30 (2011).

\* 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.