

## FN1-FGFR1 Tri-color Fusion/Translocation FISH Probe Kit

### Introduction

The FN1-FGFR1 Fusion/Translocation FISH Probe Kit is designed to detect rearrangements involving the human *FN1* and *FGFR1* genes located on chromosome bands 2q35 and 8p11.23, respectively. Rearrangements between the two gene regions, the *FN1* gene – also known as *CIG*, *ED-B*, *FINC*, *FN*, *FNZ*, *GFND*, *GFND2*, *LETS* or *MSF* – and the *FGFR1* gene – also called *BFGFR*, *CD331*, *CEK*, *FGFBR*, *FGFR-1*, *FLG*, *FLT-2*, *FLT2*, *HBGFR*, *HH2*, *HRTFDS*, *KAL2*, *N-SAM*, *OGD*, or *bFGF-R-1*, have been observed in a number of hematological and solid tumor types, and other conditions.

### Intended Use

To detect rearrangements involving the human *FN1* and *FGFR1* genes located on chromosome bands 2q35 and 8p11.23, respectively.

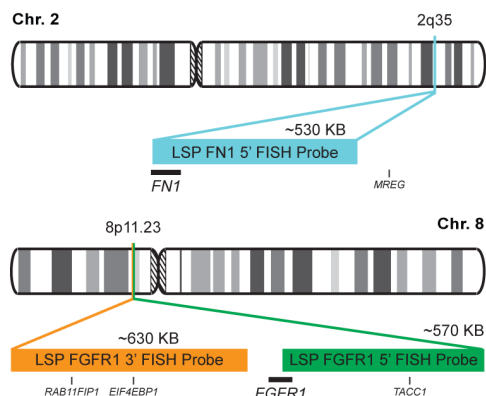
### Cont.

LSP FN1 5' FISH Probe  
LSP FGFR1 5' FISH Probe  
LSP FGFR1 3' FISH Probe

### Color

CytoAqua  
CytoGreen  
CytoOrange

### Probe Design



LSP FN1 5' FISH Probe covers center sequences and the 5' (start) portion of the *FN1* gene and some adjacent genomic sequences. LSP FGFR1 5' FISH Probe covers the 5' (start) portion of the *FGFR1* gene and some adjacent genomic sequences. LSP FGFR1 3' FISH Probe covers sequences downstream (3' end) of the gene. The probe set is flanking sequences across the *FGFR1* gene in which variable breakpoints have been observed and is also optimized to reveal translocations between the two gene regions.

### Cat. No.

CT-PAC085-10-AGO

### Volume

10 Tests (100 µL)

### Signal Pattern Interpretation

#### Normal Pattern

2OG + 2A\*

#### Abnormal Pattern

Other Patterns

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

- 1) O'Connor C. *Nature Education*. 1(1):171 (2008).
- 2) Tsuchiya KD. *Clin Lab Med*. 31(4):525-42, vii-viii (2011).
- 3) Ried T, et al. *Hum Mol Genet*. 7(10):1619-26 (1998).
- 4) Park TS, et al. *Cancer Genet Cytogenet*. 181(2):93-9 (2008).
- 5) Wu BL, et al. *Cytogenet Cell Genet*. 63(1):29-32 (1993).



CytoTest Inc.  
9430 Key West Ave., Suite 210  
Rockville, MD 20850, USA

\* 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.

### India Contact:

#### Life Technologies (India) Pvt. Ltd.

306, Aggarwal City Mall, Opposite M2K Pitampura, Delhi – 110034 (INDIA). Ph: +91-11-42208000, 42208111, 42208222, Mobile: +91-9810521400, Fax: +91-11-42208444  
Email: [customerservice@lifetechindia.com](mailto:customerservice@lifetechindia.com) Website: [www.lifetechindia.com](http://www.lifetechindia.com)