

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

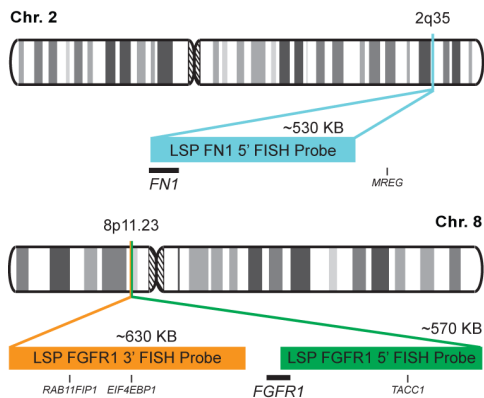
To detect rearrangements involving the human *FN1* and *FGFR1* genes located on chromosome bands 2q35 and 8p11.23, respectively.

Cont.	Color
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LSP FN1 5' FISH Probe
LSP FGFR1 5' FISH Probe
LSP FGFR1 3' FISH Probe

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.	Volume
CT-PAC085-10-AGO	10 Tests (100 µL)

Signal Pattern Interpretation	
<u>Normal Pattern</u>	<u>Abnormal Pattern</u>
2OG + 2A*	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.