

## TFEB Break Apart FISH Probe Kit

### Introduction

The TFEB Break Apart FISH Probe Kit is designed to detect rearrangements in the human *TFEB* gene located on chromosome band 6p21.1. 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 *TFEB* aberrations such as deletions or amplifications. Rearrangements and abnormal expression of the *TFEB* gene – also known as *TCL1* – have been observed in renal cell carcinoma and other tumor types.

### Intended Use

To detect rearrangements in the human *TFEB* gene located on chromosome band 6p21.1.

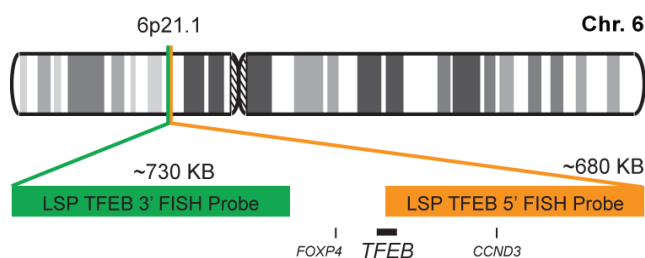
### Cont.

LSP TFEB 5' FISH Probe  
LSP TFEB 3' FISH Probe

### Color

CytoOrange  
CytoGreen

### Probe Design



Not to Scale

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

### Cat. No.

CT-PAC059-10-OG

### Volume

10 Tests (100 µL)

### Signal Pattern Interpretation

#### Normal Patterns

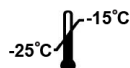
2F\*

#### Abnormal Patterns

Other Patterns

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

- 1) Carr CS & Sharp PA. *Mol Cell Biol.* 10(8):4384-8 (1990).
- 2) Argani P & Ladanyi M. *Adv Anat Pathol.* 10(5):243-60 (2003).
- 3) Argani P, et al. *Am J Pathol.* 158(6):2089-96 (2001).
- 4) Argani P & Ladanyi M. *Pathology.* 35(6):492-8 (2003).
- 5) Kuiper RP, et al. *Hum Mol Genet.* 12(14):1661-9 (2003).



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\* 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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