CytoTest®
Premium **FISH** for Quality of Lives

Life Technologies™
Your Molecular & Cell Technology Partner

For Professional Use Only

PPARG Break Apart FISH Probe Kit

Introduction

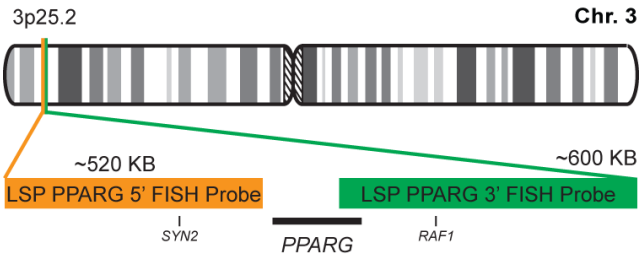
The PPARG Break Apart FISH Probe Kit is designed to detect rearrangements in the human *PPARG* gene located on chromosome band 3p25.2. In addition to revealing breaks, which can lead to translocation of parts of the gene, inversion, or its fusion to other genes, the probe set can also be used to identify other *PPARG* aberrations such as deletions or amplifications. Rearrangements and abnormal expression of the *PPARG* gene – also known as *PPARgamma*, *PPARG2*, *PPARG1*, *NR1C3*, *GLM1* or *CIMT1* – have been observed in breast cancer, prostate cancer, colorectal cancer, lung cancer and other solid and hematological malignancies.

Intended Use

To detect rearrangements in the human *PPARG* gene located on chromosome band 3p25.2.

Cont.	Color
LSP PPARG 5' FISH Probe	CytoOrange
LSP PPARG 3' FISH Probe	CytoGreen

Probe Design



Not to Scale

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

Cat. No.	Volume
CT-PAC146-10-OG	10 Tests (100 µL)

Signal Pattern Interpretation

Normal Patterns	Abnormal Patterns
2F*	Other Patterns

*Overlapping orange and green signals can appear as yellow.

1) Kliewer SA, et al. *Cell.* 83(5):813-9 (1995).
2) Mueller E, et al. *Proc Natl Acad Sci U S A.* 97(20):10990-5 (2000).
3) Heaney AP, et al. *Nat Med.* 8(11):1281-7 (2002).
4) Lehrke M & Lazar MA. *Cell.* 123(6):993-9 (2005).
5) Fujisawa T, et al. *J Pharmacol Sci.* 106(4):627-38 (2008).

-25°C -15°C CE IVD

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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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