

MYC Break Apart FISH Probe Kit

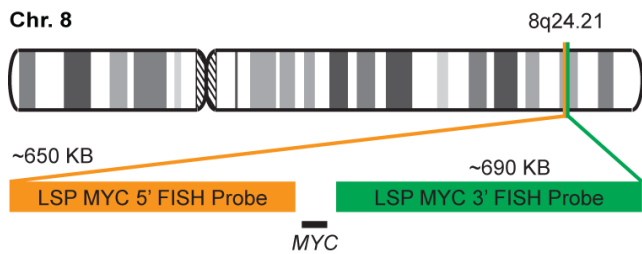
Introduction

The MYC Break Apart FISH Probe Kit is designed to detect rearrangements in the human *MYC* gene located on chromosome band 8q24.21. 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 *MYC* aberrations such as deletions or amplifications. Rearrangements and abnormal expression of the *MYC* gene – also known as *MRTL*, *MYCC*, *c-Myc* or *bHLHe39* – have been observed in Burkitt's Lymphoma and other hematological malignancies, myeloma, as well as breast, cervical, colon, ovarian and other tumor types.

| Intended Use |
|---|
| To detect rearrangements in the human <i>MYC</i> gene located on chromosome band 8q24.21. |

| Cont. | Color |
|--|-------------------------|
| LSP MYC 5' FISH Probe LSP MYC 3' FISH Probe | CytoOrange CytoGreen |

Probe Design



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

Not to Scale

| Cat. No. | Volume |
|-----------------|-------------------|
| CT-PAC208-10-OG | 10 Tests (100 µL) |

| Signal Pattern Interpretation | |
|---|---|
| <u>Normal Pattern</u> 2OG* | <u>Abnormal Pattern</u> Other Patterns |
| *Overlapping orange and green signals can appear as yellow. | |

- 1) Depinho RA, et al. *Ann Clin Res.* 1986;18(5-6):284-9 (1986).
- 2) Gartel SJ. *Crit Rev Oncog.* 4(4):435-49 (1993).
- 3) Einerson RR, et al. *Leukemia.* 20:1790-9 (2006).
- 4) Le Gouill S, et al. *Haematologica.* 92(10):1335-42 (2007).
- 5) Blancato J, et al. *Br J Cancer.* 90(8):1612-9 (2004).



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: customer.service@lifetechindia.com Website: www.lifetechindia.com