CytoTest®

Premium **FISH** for Quality of Lives

ENGLISH

For Professional Use Only

CARS Break Apart FISH Probe Kit

Introduction

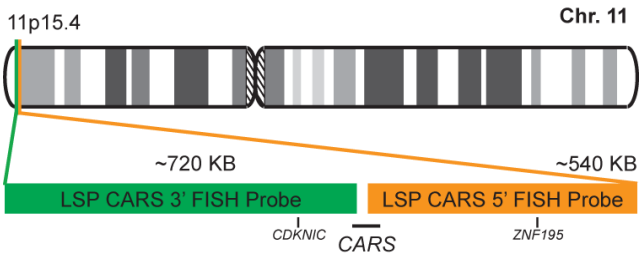
The CARS Break Apart FISH Probe Kit is designed to detect rearrangements in the human CARS gene located on chromosome band 11p15.4. In addition to revealing breaks, which can lead to translocation of parts of the gene, inversion, or its fusion to other genes, the probe set can also be used to identify other CARS aberrations such as deletions or amplifications. Rearrangements and abnormal expression of the CARS gene – also known as CARS1, CYSRS or MGC:11246 – have been observed in inflammatory myofibroblastic tumors (IMT) and several other tumor types.

Intended Use

To detect rearrangements in the human *CARS* gene located on chromosome band 11p15.4.

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

Probe Design



Not to Scale

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

Cat. No.	Volume
CT-PAC046-10-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) O'Connor C. *Nature Education*. 1(1):171 (2008).
2) Ried T, et al. *Hum Mol Genet*. 7(10):1619-26 (1998).
3) Reid LH, et al. *Genomics*. 43(3):366-75 (1997).
4) Hu RJ, et al. *Genomics*. 46(1):9-17 (1997).
5) Cools J, et al. *Genes Chromosomes Cancer*. 34(4):354-62 (2002).

-25°C -15°C

IVD

CytoTest Inc.
1395 Piccard Drive, Suite 308
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.