

# XCE pan-cen

Enumeration Probe

**Order No.:**  
D-0836-050-FI  
D-0836-050-OR

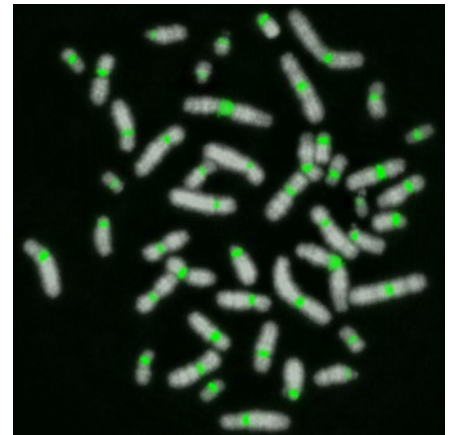
## Description

XCE pan-cen is composed of green or orange labeled repetitive sequences specific for human centromeres except for chromosome 1 which is identified by repetitive sequences specific for the heterochromatic region 1q12.

This product is marked as for 'RUO' (Research Use Only).

## Clinical Details

The centromeric region of chromosomes is essential for chromosomal inheritance and genome stability. XCE pan-cen probes target human highly repetitive sequences located at and around the centromeric region of each human chromosome. They can be used to determine the copy number of particular chromosomes in the cell, the detection of aneuploidy and polyploidy and other genomic abnormalities. Fluorescence in situ hybridization of all centromeres is a powerful technique, mainly used in radiobiology, but is also being applied in scientific research of chromosome organization and chromosome evolution.

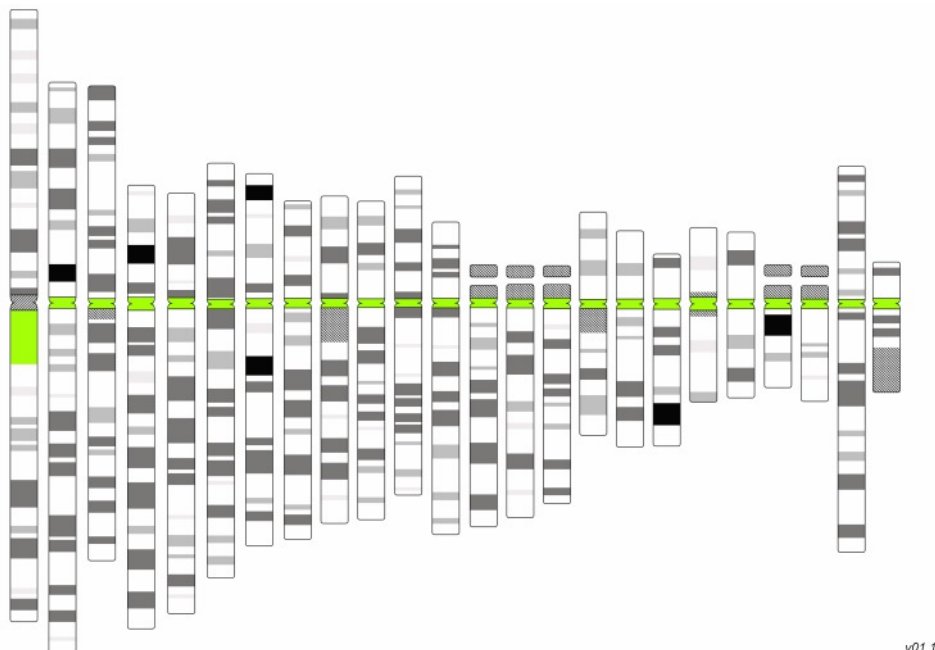


*XCE pan-cen green hybridized to lymphocytes. One normal metaphase is shown.*

## Literature:

- Wojcik et al (2000) Genet Mol Biol
- Formian et al (2000) Int J Radiat Biol 76:807-813
- Lindberg et al (2008) Mutagenesis 23:371-37

# FACTSHEET



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# MetaSystems Probes

## MetaSystems Probes GmbH (Headquarters)

1. Industriestrasse 7  
68804 Altlußheim, Germany  
tel +49 6205 2927 60  
fax +49 6205 2927 29  
info@metasystems-probes.com

## MetaSystems Group, Inc.

70 Bridge Street  
Newton, MA 02458, USA  
tel +1 6179 2499 50 | fax +1 6179 2499 54  
info@metasystems.org

## MetaSystems S.r.l.

Via Gallarate 80  
20151 Milano, Italy  
tel +39 0236 7587 51  
fax +39 0245 3753 03  
info@metasystems-italy.com

## MetaSystems India Pvt., Ltd.

No. 1/1, 1st Floor, 1st Main Rd., 2nd cross  
Thimmaiah Garden, R T Nagar  
Bangalore Karnataka, 560 032, India  
tel +91 9535 7788 01  
info@metasystems-india.com

## MetaSystems Asia Co., Ltd.

Unit 108, 1/F, Bio-Informatics Centre  
No. 2 Science Park West Avenue  
Hong Kong Science Park  
Shatin, New Territories, Hong Kong  
tel +852 2587 8333 | fax +852 2587 8334  
info@metasystems-asia.com

## Ordering Information

Product	Label	Size	Order No.
XCE pan-cen	green	50µl	D-0836-050-FI
	orange	50µl	D-0836-050-OR

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