

Kreatech™ FISH probes

Product Information Sheet

KBI-10110

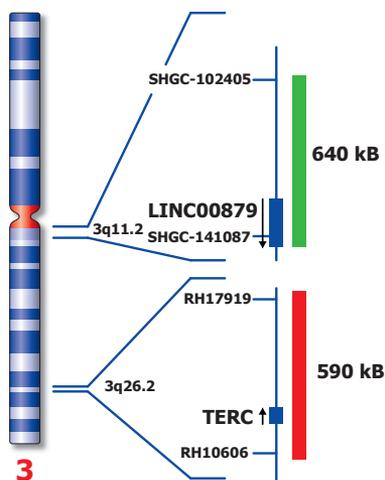
TERC (3q26) / 3q11



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PI-KBI-10110_D1.1

Published March 2015



Not to scale

Kreatech™ TERC (3q26) / 3q11 FISH probe

Introduction: Amplification of 3q is a frequently observed aberration in a variety of tumors, such as cancers of the lung and prostate, chronic lymphocytic leukemia, head and neck squamous cell carcinoma and cervical cancer. The amplified region can be quite large (3q25-29) but in all cases involvement of band 3q26 is described. The TERC (RNA component of Telomerase) gene is a possible candidate cancer gene and is located within the critical region at 3q26.

Introduction: The **TERC (3q26)** FISH probe is optimized to detect copy numbers of the TERC gene region at region 3q26. The 3q11 region probe is included to facilitate chromosome identification.

The probe is recommended to be used in combination with one of the Kreatech Pretreatment kits providing necessary reagents to perform FISH on various sample types for optimal results. (see also www.LeicaBiosystems.com and look for Kits & reagents)

Critical region 1 (red): The **TERC (3q26)** FISH probe is direct-labeled with PlatinumBright™550.
Control region 2 (green): The **3q11** FISH probe is direct-labeled with PlatinumBright™495.

Reagent: Kreatech probes are direct-labeled DNA probes provided in a ready-to-use format. Apply 10 µl of probe to a sample area of approximately 22 x 22 mm.

Please refer to the Instructions for Use for the entire Kreatech FISH protocol.

Kreatech FISH probes are REPEAT-FREE™ and therefore do not contain Cot-1 DNA. Hybridization efficiency is increased and background, due to unspecific binding, is highly reduced.

Interpretation: The **TERC (3q26) / 3q11** FISH probe is designed as a dual-color assay to detect amplification at 3q26. Amplification involving the TERC gene region at 3q26 will show several red signals, while the control at the 3q11 region will provide 2 green signals. Two single color red (R) and green (G) signals will identify the normal chromosomes 3 (2R2G).

	Normal Signal Pattern	Amp(3q26)
Expected Signals	2R2G	3+R2G

References: Arnold N et al, 1996, Genes Chromosomes Cancer, 16; 46-54
 Heselmeyer K et al, 1996, PNAS, 93; 479-484
 Soder AI et al, 1997, Oncogene, 14; 1013-1021

Warning and precautions: In case of emergencies check SDS sheets for medical advice. SDS sheets may be obtained by either contacting Leica Technical Support or visiting www.LeicaBiosystems.com. DNA probes contain formaldehyde which is a teratogen; do not inhale or allow skin contact. Wear gloves and a lab coat when handling DNA probes. All materials should be disposed of according to your institution's guidelines for hospital waste disposal.

Reagent Storage and Handling: Store at 2-8 °C. Reagents should not be used after the expiration date on the vial label.

TECHNICAL SUPPORT Technical support is available at www.LeicaBiosystems.com or +31 20 6919181 or via e-mail: kreatech-support@leicabiosystems.com.

CUSTOMER SERVICE Kreatech probes may be ordered through Leica Customer Service +31 20 6919181 or order via e-mail: purchase.orders@leica-microsystems.com.