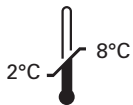


Kreatech™ FISH probes

Product Information Sheet

KBI-45105

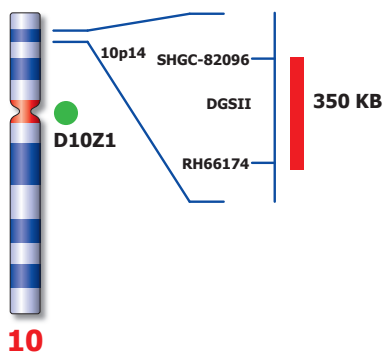
DiGeorge II (10p14) / SE 10



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Not to scale

Kreatech™ DiGeorge II (10p14) / SE 10 FISH probe

Introduction: Deletions on the short arm of chromosome 10 are also associated with a DiGeorge Syndrome like phenotype. Although this partial monosomy of chromosome 10p is quite rare it has been observed in a portion of patients showing features of DiGeorge (DGS) and velocardiofacial syndrome (VCFS). A critical haploinsufficiency region for DGS/VCFS is defined on 10p14 as DGCR1.

Intended use: The **DiGeorge II (10p14)** region probe is optimized to detect copy numbers of the DGS2 (DiGeorge critical region gene 2) at 10p14.
The **Satellite Enumeration (SE) 10** FISH 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 **DiGeorge II (10p14)** specific FISH probe is direct-labeled with PlatinumBright™550.
Control region 2 (green): The **SE 10** 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 **DiGeorge II (10p14) / SE 10** FISH probe is designed as a dual-color assay to detect deletions at 10p14. Deletions involving the 10p14 will show one red signal and two green signals at the chromosome 10 centromere control region (1R2G). Two single color red and green signals will identify the normal chromosomes 10 (2R2G)

	Normal Signal Pattern	Del(10p14)
Expected Signals	2R2G	1R2G

References: Berend S et al, 2000, Am. J. Med. Genet. 91; 313-317
Lichtner P et al, 2000, J. Med. Genet., 37; 33-37

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 formamide 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.