

Poseidon™ Repeat Free™ hTERC (3q26) & 3q11 Control 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 hTERC (RNA component of Telomerase) gene is a possible candidate cancer gene and is located within the critical region at 3q26.

Intended use: The **hTERC (3q26)** specific DNA Probe is optimized to detect copy numbers of the hTERC 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 a Poseidon FISH Kit providing necessary reagents to perform FISH (KBI-60002, KBI-60003 or KBI-60001) for optimal results.

Critical region 1 (red): The **hTERC (3q26)** specific DNA probe is direct-labeled with PlatinumBright550.

Control region 2 (green): The **3q11** control DNA probe is direct-labeled with PlatinumBright495.

Reagent: Poseidon 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 Poseidon FISH protocol.



Poseidon Repeat Free probes do not contain Cot-1 DNA. Hybridization efficiency is therefore increased and background, due to unspecific binding, is highly reduced.

Interpretation: The **hTERC (3q26)** probe is designed as a dual-color assay to detect amplification at 3q26. Amplification involving the hTERC gene region at 3q26 will show several red signals, while the control at the 3q11 region will provide 2 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 Al et al, 1997, Oncogene, 14; 1013-1021


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Application Manual

KBI-10110
ON hTERC (3q26) / 3q11


IVD
for EU only







KREATECH Diagnostics
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2°C 8°C
long term storage






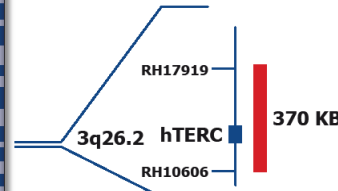
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Application manual

Not to scale