

Poseidon™ Repeat Free™ hTERT (5p15) & EGR1 (5q31) Control probe - Optimized for Tissue Hybridization -

Introduction: Gains and amplifications at 5p15 have been documented for various tumor types, including non-small cell lung carcinoma, squamous cell carcinoma of head and neck, and uterine cervix cancer. The gene for the reverse transcriptase component of telomerase (hTERT) has been identified to map to 5p15.33 and is a frequent target for amplification during tumorigenesis.

Intended use: The hTERT (5p15) specific DNA Probe is optimized to detect copy numbers of the hTERT gene region at region 5p15.
The EGR1 (5q31) gene region probe is included to facilitate chromosome identification.

The probe is especially developed for use on paraffin sections and 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. For applications on metaphase/interphase spreads, blood smears and bone marrow cells it is advised to use KBI-10208.

Critical region 1 (red): The hTERT (5p15) specific DNA probe is direct-labeled with PlatinumBright550.

Control region 2 (green): The 5q31 control DNA probe gene region 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 hTERT (5p15) probe is designed as a dual-color assay to detect amplification at 5p15. Amplification involving the hTERT gene region at 5p15 will show several red signals, while the control at the chromosome 5q31 region will provide 2 signals. Two single color red (R) and green (G) signals will identify the normal chromosomes 5 (2R2G).

	Normal Signal Pattern	Amp(5p15)
Expected Signals	2R2G	> 5R2G

References: Bryce et al, 2000, Neoplasia, 2 ; 197-201.

AM-KBI-10709_R1.0.doc





Application Manual

KBI-10709
ON hTERT(5p15) / EGR1 (5q31),
(tissue)


IVD
for EU only


CE



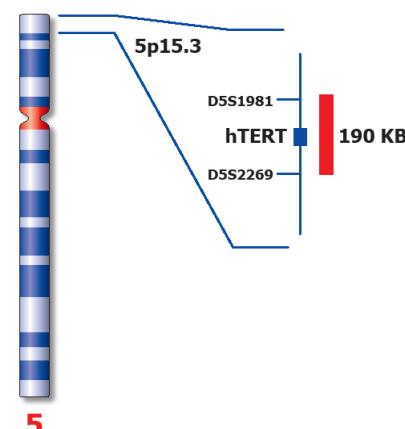
KREATECH Diagnostics
Vlierweg 20
1032 LG Amsterdam
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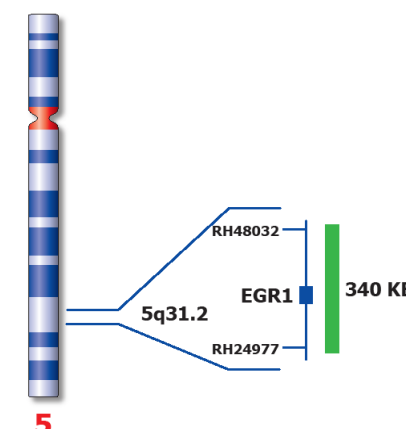




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Not to scale

Application manual