Cat Nr/REF: KBI-40116

English

For professional use only

Poseidon™ Repeat Free™ IGF1R (15q26) / 15q11 probe

Introduction: The type 1 IGF receptor **(IGF1R)** at 15q26 is required for normal embryonic and postnatal growth. Deletions, but also gain of an approximately 5 Mb region including the IGF1R gene has been found to have a profound effect on prenatal and early postnatal growth.

Intended use: The **IGF1R (15q26)** specific DNA probe is optimized to detect copy numbers of the IGF1R gene region at region 15q26.
The **15q11 (SNRPN / UBE3A**) specific 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 (KB-60002, KB-60003 or KB-60001) for optimal results.

Critical region 1 (red): The **IGF1R (15q26)** specific DNA probe is direct-labeled with Platinum*Bright*550.

Control region 2 (green): The **15q11** specific DNA probe is direct-labeled with Platinum*Bright*495.

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 **IGF1R (15q26)** probe is designed as a dual-color assay to detect amplification or deletions at 15q26.
Amplification involving the IGF1R gene region at 15q26 will show several red signals, while the control at the 15q11control region will provide 2 signals. Two single color red (R) and green (G) signals will identify the normal chromosomes 15 (2R2G).
Deletions involving the IGF1R gene region at 15q26 will show one red signal and two green signals at the 15q11 control region (1R2G). Two single color red (R) and green (G) signals will identify the normal chromosomes 15 (2R2G)

	Normal Signal Pattern	15q26 Amplification	15q26 Deletion
Expected Signals	2R2G	3+R2G	1R2G

References:
Faivre et al, 2002, Eur J Hum Genet. 10 ; 699-706.
Okubo et al, 2003, J Clin Endocrinol. Metab 88 ; 5981-5988.

POSEIDON™
REPEAT-FREE™ FISH PROBES

Application Manual

KBI-40116
MD IGF1R (15q26) / 15q11

IVD
for EU only

CE

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2°C 8°C long term storage

KREATECH DIAGNOSTICS

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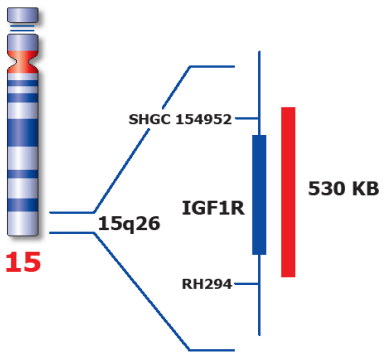

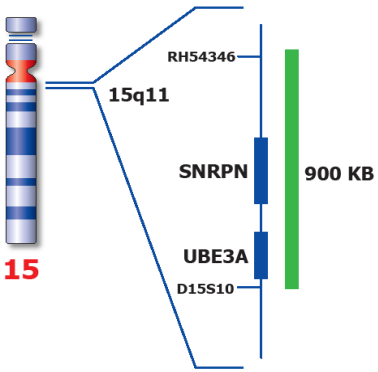

Not to scale

Application manual