

## Poseidon™ Repeat Free™ Cri-Du-Chat CTNND (5p15) & 5q31 Control probe

**Introduction:** Cri-du-chat syndrome is a hereditary congenital syndrome associated with deletion of part of the short arm of chromosome 5. The deletions can vary in size from extremely small and involving only band 5p15.2 to the entire short arm. A critical chromosomal region responsible for the clinical features, including growth and mental retardation, microcephaly, hypertelorism, epicanthal fold is located at 5p15.2, while a second region involved in the high-pitched cry is mapped to proximal 5p15.3.

**Intended use:** The **Cri-Du-Chat** region probe is optimized to detect copy numbers at the CTNND2 gene region in the Cri-Du-Chat critical region at 5p15.2. The 5q31 specific DNA probe at 5q31 is included as control probe.

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 **Cri-Du-Chat** specific DNA probe is direct-labeled with PlatinumBright550.

**Control region 2 (green):** The **5q31** 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 **Cri-Du-Chat** probe is designed as a dual-color assay to detect deletions at 5p15.2. Deletions involving the Cri-Du-Chat (15p15.2) region will show one red signal and two green signals at the 5q31 control region (1R2G). Two single color red (R) and green (G) signals will identify the normal chromosomes 5 (2R2G)

	Normal Signal Pattern	Del 5(p15.2)
Expected Signals	2R2G	1R2G

**References:** Overhauser, J et al., 1994, Hum. Molec. Genet. 3: 247-252  
Medina, M, 2000, Genomics, 63: 157-164,

AM-KBI-40106\_R1.0.doc



## Application Manual

KBI-40106  
MD Cri-Du-Chat CTNND (5p15) / 5q31

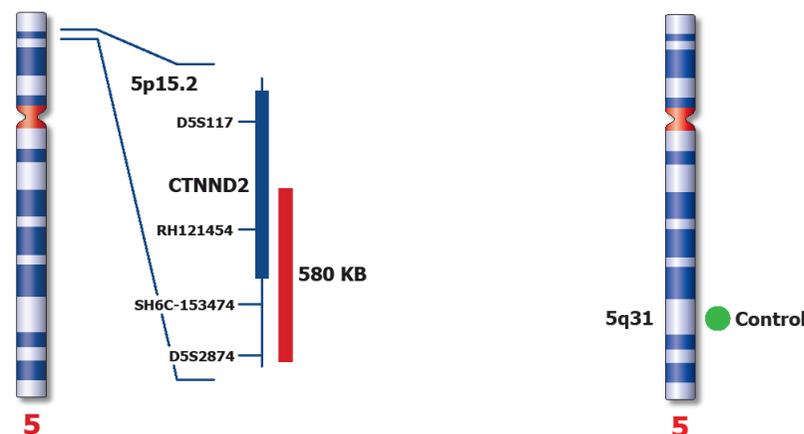


KREATECH Diagnostics  
Vlierweg 20  
1032 LG Amsterdam  
The Netherlands



Published Dec 2007

www.poseidondiagnosics.com



Application manual