

CUX1/VIPR2/CCP7 FISH Probe Kit

Introduction

The CUX1/VIPR2/CCP7 FISH Probe Kit is designed to detect the human CUX1 gene located on chromosome band 7q22.1, and the VIPR2 gene on chromosome band 7q36.3, along with the number of chromosome 7 copies per cell. Expression of the CUX1 gene – also known as CDP, CUX, p75, CASP, CDP1, COY1, Clox, p100, p110, p200, CUTL1, GOLIM6, CDP/Cut, Cux/CDP or Nbla10317 – has been observed elevated in pancreatic, breast and other cancers. Duplications and other anomalies in the region of the VIPR2 gene – also called VPAC2, VPAC2R, VIP-R-2, VPCAP2R, PACAP-R3, DUP7q36.3, PACAP-R-3 or C16DUPq36.3 – are associated with schizophrenia, prenatal malformations and some intestinal malignancies.

Intended Use

To measure the copy number of the human *CUX1* and *VIPR2* genes located on chromosome bands 7q22.1 and 7q36.3, respectively.

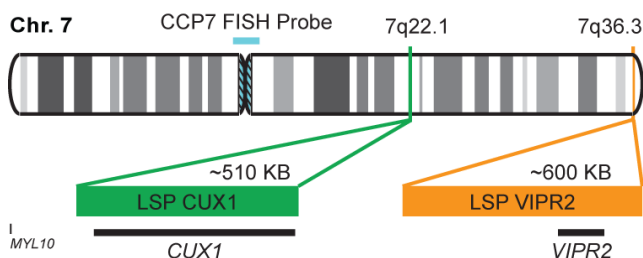
Cont.

Color

LSP CUX1 FISH Probe
LSP VIPR2 FISH Probe
CCP7 FISH Probe

CytoGreen
CytoOrange
CytoAqua

Probe Design



Not to Scale

LSP CUX1 FISH Probe covers a chromosomal region which includes the entire *CUX1* gene. LSP VIPR2 FISH Probe covers a chromosomal region which includes the entire *VIPR2* gene. CCP7 FISH Probe, derived from chromosome 7-specific alpha satellite DNA, is designed to serve as a control to determine the number of chromosome 7 copies per cell.

Cat. No.

Volume

CT-PAC163-10-GOA

10 Tests (100 µL)

Signal Pattern Interpretation

Normal Patterns

2O2G2A

Abnormal Patterns

≤2O≤2G2A (except 2O2G2A), or others

1) De Vos J, et al. *Oncogene*. 21(44):6848-57 (2002).
2) Goulet B, et al. *Cancer Res*. 62(22):6625-33 (2002).
3) Tsutsumi S, et al. *Cancer Res*. 63(16):4882-7 (2003).
4) Thoenissen NH, et al. *Am J Hematol*. 86(8):703-5 (2011).
5) Moody TW, et al. *Ann N Y Acad Sci*. 921:26-32 (2000).

* CE IVD only available in certain countries. All other countries are either ASR or RUO. Please contact your local dealer or our headquarters for more information.