
Product Data Sheet
5p15 (CTNND2) FISH Probe
Catalog#: F-CTNND2-(G,R,A,Y,D)

Gene Information:

Catenin (Cadherin-Associated Protein), Delta 2 (CTNND2) is an adhesive junction associated protein of the armadillo/beta-catenin superfamily. CTNND2 promotes the disruption of E-cadherin based junctions promoting cell spreading upon stimulation by hepatocyte growth factor.

Clinical Relevance:

Cervical Carcinoma: Studies have revealed copy number gains in 5p in 43% of cervical carcinomas. These studies have demonstrated gains of the entire 5p chromosomal arm which contains numerous potential oncogenes including CTNND2 at 5p15.¹

Prostate Cancer: CTNND2 is significantly overexpressed in prostate cancer compared to benign prostate hyperplasia (BPH) and thus is a potential candidate for the diagnosis and management of prostate cancer.²

Probe Specifications:

Probe and target gene boundaries are indicated in relation to proximity to the centromere or telomere. Positions are based on UCSC genome assembly GRCh37/hg19.

Locus	Target			Probe		
	Gene	Centromere	Telomere	Centromere	Telomere	Size (Kb)
5p15	CTNND2	10,971,952	11,904,110	11,070,648	11,434,358	364

Storage:

Store at -20°C
Protect from direct light.

References:

1. Gopeshwar Narayan and Vundavalli V Murty: Integrative genomic approaches in cervical cancer: implications for molecular pathogenesis. *Future Oncol.* 2010 October ; 6(10): 1643–1652.
2. Burger MJ, Tebay MA, Keith PA, Samaratunga HM, Clements J, Lavin MF, Gardiner RA. Expression analysis of delta-catenin and prostate-specific membrane antigen: their potential as diagnostic markers for prostate cancer. *Int J Cancer.* 2002 Jul 10;100(2):228-37. PubMed PMID: 12115574.