

Product datasheet for **RC400199**

beta Catenin (CTNNB1) (NM_001904) Human Mutant ORF Clone

Product data:

Product Type:	Mutant ORF Clones
Product Name:	beta Catenin (CTNNB1) (NM_001904) Human Mutant ORF Clone
Mutation Description:	S45A
Affected Codon#:	45
Affected NT#:	c.133
Nucleotide Mutation:	CTNNB1 Mutant (S45A), Myc-DDK-tagged ORF clone of Homo sapiens catenin (cadherin-associated protein), beta 1, 88kDa (CTNNB1), transcript variant 1 as transfection-ready DNA
Effect:	Missense
Symbol:	beta Catenin
Synonyms:	armadillo; CTNNB; EVR7; MRD19; NEDSDV
E. coli Selection:	Kanamycin (25 ug/mL)
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
Tag:	Myc-DDK
ACCN:	NM_001904
ORF Size:	2343 bp
Restriction Sites:	Sgfl-Mlul
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RefSeq Size:	3720 bp
RefSeq ORF:	2346 bp
Locus ID:	1499
Cytogenetics:	3p22.1
Domains:	Armadillo_seg
Protein Families:	Druggable Genome, ES Cell Differentiation/IPS, Transcription Factors
Protein Pathways:	Adherens junction, Arrhythmogenic right ventricular cardiomyopathy (ARVC), Basal cell carcinoma, Colorectal cancer, Endometrial cancer, Focal adhesion, Leukocyte transendothelial migration, Melanogenesis, Pathogenic Escherichia coli infection, Pathways in cancer, Prostate cancer, Thyroid cancer, Tight junction, Wnt signaling pathway
MW:	85 kDa
Gene Summary:	<p>The protein encoded by this gene is part of a complex of proteins that constitute adherens junctions (AJs). AJs are necessary for the creation and maintenance of epithelial cell layers by regulating cell growth and adhesion between cells. The encoded protein also anchors the actin cytoskeleton and may be responsible for transmitting the contact inhibition signal that causes cells to stop dividing once the epithelial sheet is complete. Finally, this protein binds to the product of the APC gene, which is mutated in adenomatous polyposis of the colon. Mutations in this gene are a cause of colorectal cancer (CRC), pilomatrixoma (PTR), medulloblastoma (MDB), and ovarian cancer. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2016]</p>