

Product datasheet for **RC219207**

gamma Catenin (JUP) (NM_021991) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	gamma Catenin (JUP) (NM_021991) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	gamma Catenin
Synonyms:	CTNNG; DP3; DP111; PDGB; PG; PKGB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>RC219207 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGGTGATGAACCTGATGGAGCAGCCTATCAAGTGACTGAGTGGCAGCAGACATACACCTACGACT
CGGGTATCCACTCGGGCGCCAACACCTGCGTGCCCTCCGTCAGCAGCAAGGGCATCATGGAGGAGGATGA
GGCTGCGGGCGCCAGTACACGCTCAAGAAAACCACTTACACCCAGGGGGTGCCCCAGCCAAGGT
GACCTGGAGTACCAGATGTCCACAACAGCCAGGGCCAACGGGTGCGGGAGGCCATGTGCCCTGGTGTGT
CAGGCGAGGACAGCTCGCTTCTGCTGGCCACCCAGGTGGAGGGGAGGCCACCAACCTGCAGCGACTGGC
CGAGCCGTCAGCTGCTCAAGTCGGCCATTGTGCATCTCATCACTACCAGGATGATGCCGAGCTGGCC
ACTCGGCCCTGCCGAGCTCACAACTGCTCAACGACGAGGACCCGGTGGTGGTACCAAGGCGGCCA
TGATTGTGAACCAGCTGTGAAGAAGGAGGCGTCGCGGGGGCCCTGATGGGCTCGCCCCAGCTGGTGGC
CGCTGTGCTGCGTACCATGCAGAATACCAGCGACTGGACACAGCCCGCTGCACCACCAGCATCCTGCAC
AACCTCTCCACACCGGGAGGGGCTGCTCGCCATCTTCAAGTCGGGTGGCATCCCTGCTCTGGTCCGCA
TGCTCAGCTCCCCGTGGAGTCGGTCTGTTCTATGCCATCACCAGCTGCACAACCTGCTCCTGTACCA
GGAGGGCGCCAAGATGGCCGTGCGCCTGGCCGACGGGCTGCAAAAGATGGTGGCCCTGCTCAACAAGAAC
AACCCCAAGTTCCTGGCCATCACCACCGACTGCCTGCAGCTCCTGGCCTACGGCAACCAGGAGAGCAAGC
TGATCATCCTGGCCAATGGTGGGCCCCAGGCCCTCGTGCAGATCATGCGTAACTACAGTTATGAAAAGCT
GCTCTGGACCACAGTCGTGTGCTCAAGGTGCTATCCGTGTGCCAGCAATAAGCCTGCCATTGTGGAG
GCTGGTGGGATGCAGGCCCTGGCAAGCACCTGACCAGCAACAGCCCCCGCTGGTGCAGAACTGCTGGT
GGACCTGCGCAACCTCTCAGATGTGGCCACCAAGCAGGAGGGCCTGGAGAGTGTGCTGAAGATTCTGGT
GAATCAGCTGAGTGTGGATGACGTCAACGTCCTCACCTGTGCCACGGGCACACTCTCAACCTGACATGC
AACAACAGCAAGAACAAGACGCTGGTGACACAGAACAGCGGTGTGGAGGCTCTCATCCATGCCATCCTGC
GTGCTGGTGACAAGGACGACATCACGGAGCCTGCCGTCTGCGCTCTGCGCCACCTCACTAGCCGCCACCC
TGAGGGCCGAGATGGCCAGAACTCTGTGCGTCTCAACTATGGCATCCCAGCCATCGTGAAGCTGCTCAAC
CAGCCCAACCAGTGGCCACTGGTCAAGGCAACCATCGGCTTGATCAGGAATCTGGCCCTGTGCCAGCCA
ACCATGCCCGCTGCAGGAGGCAGCGGTATCCCCCGCTCGTCCAACCTGCTGGTGAAGGCCACCAGGA
TGCCAGCGCCACGTAGCTGCAGGCACACAGCAGCCCTACACGGATGGTGTGAGGATGGAGGAGATTGTG
GAGGGCTGCACCGGAGCACTGCACATCCTCGCCGGGACCCCATGAACCGCATGGAGATCTCCGGCTCA
ACACCATTCCCCTGTTTGTGAGCTCCTGTACTCGTGGTGGAGAACATCCAGCGCGTGGCTGCCGGGGT
GCTGTGTGAGCTGGCCCAGGACAAGGAGGCGGCCAGCCATTGATGCAGAGGGGGCCTCGGCCCACTC
ATGGAGTTGCTGCACTCCCGCAACGAGGGCACTGCCACCTACGCTGCTGCCGTCTGTTCCGCATCTCCG
AGGACAAGAACCAGACTACCGAAGCGCGTGTCCGTGGAGCTCACCAACTCCCTCTTCAAGCATGACCC
GGCTGCCCTGGGAGGCTGCCAGAGCATGATTCCCATCAATGAGCCCTATGGAGATGACTTGGATGCCACC
TACCGCCCATGTACTCCAGCGATGTGCCCTTGACCCGCTGGAGATGCACATGGACATGGATGGAGACT
ACCCATCGACACCTACAGCGACGGCCTCAGGCCCCCGTACCCCACTGCAGACCACATGCTGGCC

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC219207 protein sequence
 Red=Cloning site Green=Tags(s)

MEVMNLMEQPIKVTWEQQTYTYDSGIHSGANTCVPSVSSKGIMEEDEACGRQYTLKKTTTYTQGVPSPSQG
 DLEYQMSTTARAKRVREAMCPGVSGEDSSLLLATQVEGQATNLQRLAEPSSLKSAIVHLINYQDDAELA
 TRALPELTKLLNDEDPVVVTKAAMIVNQLSKKEASRRALMGSPQLVAAVVRTMQNTSDLDTARCTTSILH
 NLSHHREGLLAIFKSGGIPALVRMLSSPVESVLFYAITTLHNLLLYQEGAKMAVRLADGLQKMVPLLKNK
 NPKFLAITTDCLQLLAYGNQESKLIILANGGPQALVQIMRNYSYEKLLWTTSRVLKVLVSVCPSNKPAIVE
 AGGMQALGKHLTSNSPRLVQNCLWTLRNLSDVATKQEGLESVLKILVNQLSVDDVNVLTCAATGTLNLTCTC
 NNSKNKTLVTQNSGVEALIHAILRAGDKDDITEPAVCALRHLTSRHEAEMAQNSVRLNYGIPAIKLLN
 QPNQWPLVKATIGLIRNLALCPANHAPLQEAIVPRVQLLVKAHQDAQRHVAAGTQQPYTDGVRMEEIV
 EGCTGALHILARDPMMRMEIFRLNTIPLFVQLLYSSVENIQRVAAGVLCELAQDKEAADAIDAEGASAPL
 MELLHSRNEGTATYAAAVLFRISEDKNPDYRKRVSVELTNSLFKHDPAAWAAQSMIPINEPYGDDLDAT
 YRPMYSSDVLDPLEMHMDMDGDYPIDTYS DGLRPPYPTADHMLA

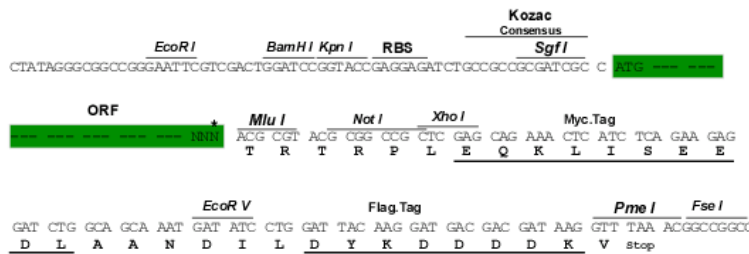
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6690_c12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_021991

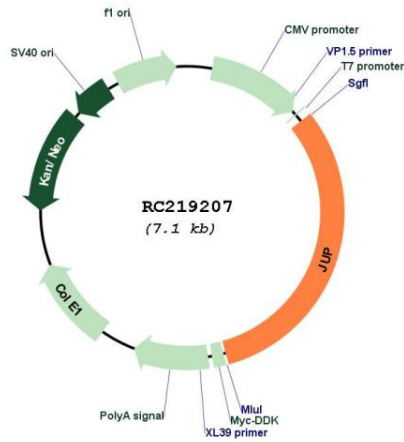
ORF Size: 2235 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

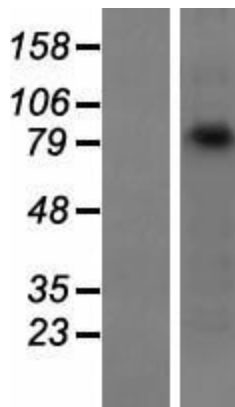
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_021991.3
RefSeq Size:	3211 bp
RefSeq ORF:	2238 bp
Locus ID:	3728
UniProt ID:	P14923
Cytogenetics:	17q21.2
Domains:	Armadillo_seg
Protein Families:	Druggable Genome
Protein Pathways:	Acute myeloid leukemia, Arrhythmogenic right ventricular cardiomyopathy (ARVC), Pathways in cancer
MW:	81.7 kDa
Gene Summary:	This gene encodes a major cytoplasmic protein which is the only known constituent common to submembranous plaques of both desmosomes and intermediate junctions. This protein forms distinct complexes with cadherins and desmosomal cadherins and is a member of the catenin family since it contains a distinct repeating amino acid motif called the armadillo repeat. Mutation in this gene has been associated with Naxos disease. Alternative splicing occurs in this gene; however, not all transcripts have been fully described. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC219207



Western blot validation of overexpression lysate (Cat# [LY411834]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC219207 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).