

## Product datasheet for **RC204209**

### **gamma Catenin (JUP) (NM\_002230) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	gamma Catenin (JUP) (NM_002230) 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:

>RC204209 ORF sequence  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGAGGTGATGAACCTGATGGAGCAGCCTATCAAGTGACTGAGTGGCAGCAGACATACACCTACGACT  
CGGGTATCCACTCGGGCGCCAACACCTGCGTGCCCTCCGTCAGCAGCAAGGGCATCATGGAGGAGGATGA  
GGCCTGCGGGCGCCAGTACACGCTCAAGAAAACCACTTACACCCAGGGGGTGCCCCAGCCAAGGT  
GACCTGGAGTACCAGATGTCCACAACAGCCAGGGCCAACGGGTGCGGGAGGCCATGTGCCCTGGTGTGT  
CAGGCGAGGACAGCTCGCTTCTGCTGGCCACCCAGGTGGAGGGGAGGCCACCAACCTGCAGCGACTGGC  
CGAGCCGTCAGCTGCTCAAGTCGGCCATTGTGCATCTCATCACTACCAGGATGATGCCGAGCTGGCC  
ACTCGGCCCTGCCGAGCTCACAACTGCTCAACGACGAGGACCCGGTGGTGGTACCAAGGCGGCCA  
TGATTGTGAACCAGCTGTGAAGAAGGAGGCGTCGCGGGGGCCCTGATGGGCTCGCCCCAGCTGGTGGC  
CGCTGTCTGCGTACCATGCAGAATACCAGCGACTGGACACAGCCCGCTGCACCACCAGCATCCTGCAC  
AACCTCTCCACACCGGGAGGGGCTGCTCGCCATCTTCAAGTCGGTGGCATCCCTGCTCTGGTCCGCA  
TGCTCAGCTCCCCTGTGGAGTCGGTCTGTTCTATGCCATCACACGCTGCACAACCTGCTCCTGTACCA  
GGAGGGCGCCAAGATGGCCGTGCGCCTGGCCGACGGGCTGCAAAAAGATGGTGGCCCTGCTCAACAAGAAC  
AACCCCAAGTTCCCTGGCCATCACACCGACTGCCTGCAGCTCCTGGCCTACGGCAACCAGGAGAGCAAGC  
TGATCATCCTGGCCAATGGTGGGCCCCAGGCCCTCGTGCAGATCATGCGTAACTACAGTTATGAAAAGCT  
GCTCTGGACCACAGTCGTGTGCTCAAGGTGCTATCCGTGTGCCAGCAATAAGCCTGCCATTGTGGAG  
GCTGGTGGGATGCAGGCCCTGGCAAGCACCTGACCAGCAACAGCCCCCGCTGGTGCAGAACTGCCTGT  
GGACCTGCGCAACCTCTCAGATGTGGCCACCAAGCAGGAGGGCCTGGAGAGTGTGCTGAAGATTCTGGT  
GAATCAGCTGAGTGTGGATGACGTCAACGTCCTCACCTGTGCCACGGGCACACTCTCAACCTGACATGC  
AACAAACAGCAAGAACAAGACGCTGGTGACACAGAACAGCGGTGTGGAGGCTCTCATCCATGCCATCCTGC  
GTGCTGGTGACAAGGACGACATCACGGAGCCTGCCGTCTGCGCTCTGCGCCACCTCACTAGCCGCCACCC  
TGAGGGCCGAGATGGCCAGAACTCTGTGCGTCTCAACTATGGCATCCCAGCCATCGTGAAGCTGCTCAAC  
CAGCCCAACCAGTGGCCACTGGTCAAGGCAACCATCGGCTTGATCAGGAATCTGGCCCTGTGCCAGCCA  
ACCATGCCCGCTGCAGGAGGCAGCGGTATCCCCCGCTCGTCCAACCTGCTGGTGAAGGCCACCAGGA  
TGCCAGCGCCACGTAGCTGCAGGCACACAGCAGCCCTACACGGATGGTGTGAGGATGGAGGAGATTGTG  
GAGGGCTGCACCGGAGCACTGCACATCCTCGCCGGGACCCCATGAACCGCATGGAGATCTCCGGCTCA  
ACACCATTCCCCTGTTTGTGCAGCTCCTGTACTCGTGGTGGAGAACATCCAGCGCGTGGCTGCCGGGGT  
GCTGTGTGAGCTGGCCCAGGACAAGGAGGCGGCCAGCCATTGATGCAGAGGGGGCCTCGGCCCACTC  
ATGGAGTTGCTGCACTCCCGCAACGAGGGCACTGCCACCTACGCTGCTGCCGTCTGTTCCGCATCTCCG  
AGGACAAGAACCAGACTACCGAAGCGCGTGTCCGTGGAGCTCACCAACTCCCTCTTCAAGCATGACCC  
GGCTGCCCTGGGAGGCTGCCAGAGCATGATCCCATCAATGAGCCCTATGGAGATGACTTGGATGCCACC  
TACCGCCCATGTACTCCAGCGATGTGCCCTTGACCCGCTGGAGATGCACATGGACATGGATGGAGACT  
ACCCATCGACACCTACAGCGACGGCCTCAGGCCCCCGTACCCCACTGCAGACCACATGCTGGCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC204209 protein sequence  
 Red=Cloning site Green=Tags(s)

MEVMNLMEQPIKVTWEQQTYTYDSGIHSGANTCVPSVSSKGIMEEDEACGRQYTLKKTTTYTQGVPSPSQG  
 DLEYQMSTTARAKRVREAMCPGVSGEDSSLLLATQVEGQATNLQRLAEPSSLKSAIVHLINYQDDAELA  
 TRALPELTKLLNDEDPVVVTKAAMIVNQLSKKEASRRALMGSPQLVAAVVRTMQNTSDLDTARCTTSILH  
 NLSHHREGLLAIFKSGGIPALVRMLSSPVESVLFYAITTLHNLLLYQEGAKMAVRLADGLQKMVPLLKNK  
 NPKFLAITTDCLQLLAYGNQESKLIILANGGPQALVQIMRNYSYEKLLWTTSRVVKVLSVCPNKAIVE  
 AGGMQALGKHLTSNSPRLVQNCLWTLRNLSDVATKQEGLESVLKILVNQLSVDDVNVLTCAATGTLNLT  
 NNSKNKTLVTQNSGVEALIHAILRAGDKDDITEPAVCALRHLTSRHPAEMAQNSVRLNYGIPAIVKLLN  
 QPNQWPLVKATIGLIRNLALCPANHAPLQEAIVPRVQLLVKAHQDAQRHVAAGTQQPYTDGVRMEEIV  
 EGCTGALHILARDPMMRMEIFRLNTIPLFVQLLYSSVENIQRVAAGVLCELAQDKEAADAIDAEGASAPL  
 MELLHSRNEGATYAAAVLFRISEDKNPDYRKRVSVELTNSLFKHDPAAWAAQSMIPINEPYGDDLDAT  
 YRPMYSSDVLDPLEMHMDMDGDYPIDTYSDDLPPYPTADHMLA

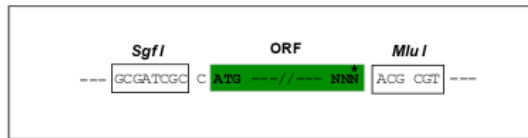
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: [https://cdn.origene.com/chromatograms/mk6203\\_b03.zip](https://cdn.origene.com/chromatograms/mk6203_b03.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\_002230

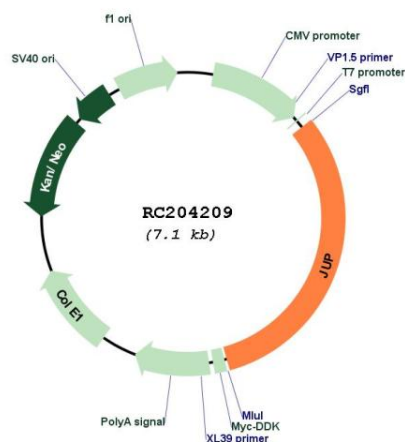
ORF Size: 2235 bp

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](#)

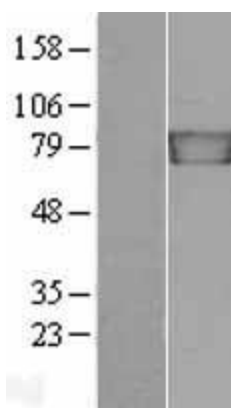
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_002230.4</a>
<b>RefSeq Size:</b>	3508 bp
<b>RefSeq ORF:</b>	2238 bp
<b>Locus ID:</b>	3728
<b>UniProt ID:</b>	<a href="#">P14923</a>
<b>Cytogenetics:</b>	17q21.2
<b>Domains:</b>	Armadillo_seg
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Acute myeloid leukemia, Arrhythmogenic right ventricular cardiomyopathy (ARVC), Pathways in cancer
<b>MW:</b>	81.7 kDa
<b>Gene Summary:</b>	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]

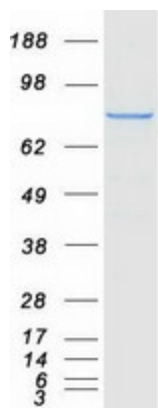
Product images:



Circular map for RC204209



Western blot validation of overexpression lysate (Cat# [LY400807]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204209 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified JUP protein (Cat# [TP304209]). The protein was produced from HEK293T cells transfected with JUP cDNA clone (Cat# RC204209) using MegaTran 2.0 (Cat# [TT210002]).