

Product datasheet for **SC324466**

gamma Catenin (JUP) (NM_002230) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	gamma Catenin (JUP) (NM_002230) Human Untagged Clone
Tag:	Tag Free
Symbol:	gamma Catenin
Synonyms:	CTNNG; DP3; DPIII; PDGB; PG; PKGB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_002230.1
GGCAGAAGCGCATGAGGCTGTGGGACTTGCCTTCCATTTGATTTCTGAATTGTGAAGGTG
CATGCTTTCTGGAGGCTGCACAGACCTTTCCACCCGCTTTCCTGAAAGAATTTGACAG
GGAAAGTGAGACCGCAGGAAGGCTTTTTGGGGGAAGGTTTCTTCAATGCTAGACTCTCTC
AGGCAGAGCTGCATCGGGCCCCCTGCCTTCCCTGCTCCCAATTTCTGAGACCGCCCGCC
CCCACCCAGAATTGGGATCTTGATCAGGTAGCCACGATGGAGGTGATGAACCTGATGGA
GCAGCCTATCAAGGTGACTGAGTGGCAGCAGACATACACCTACGACTCGGGTATCCACTC
GGGCGCCAACACCTGCGTGCCCTCCGTACGAGCAAGGGCATCATGGAGGAGGATGAGGC
CTGCGGGCCAGTACACGCTCAAGAAAACCACCACTTACACCCAGGGGGTGCCCCCAG
CCAAGGTGACCTGGAGTACCAGATGTCCACAACAGCCAGGGCCAACGGGTGCGGGAGGC
CATGTGCCCTGGTGTGTCAGGCGAGGACAGCTCGCTTCTGCTGGCCACCCAGGTGGAGGG
GCAGGCCACCAACCTGCAGCGACTGGCCGAGCCGTCCCAGCTGCTCAAGTCGGCCATTGT
GCATCTCATCAACTACCAGGATGATGCCGAGCTGGCCACTCGCGCCCTGCCCGAGCTCAC
CAAAGTGTCAACGACGAGGACCCGGTGGTGGTGACCAAGGCGGCCATGATTGTGAACCA
GCTGTGCGAAGAAGGAGGCGTCCGCGCGGGCCCTGATGGGCTCGCCCCAGCTGGTGGCCGC
TGTGCGTACCATGCAGAATACCAGCGACCTGGACACAGCCCGCTGCACCACCAGCAT
CCTGCACAACCTCTCCACCACCGGGAGGGGCTGCTCGCCATCTTCAAGTCGGGTGGCAT
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CGGGCTGCAAAAAGATGGTGGCCCTGCTCAACAAGAACAACCCCAAGTTCTTGGCCATCAC
CACCGACTGCCTGCAGCTCCTGGCCTACGGCAACCAGGAGAGCAAGCTGATCATCTGCGC
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TGTGGAGGCTGGTGGGATGCAGGCCCTGGGCAAGCACCTGACCAGCAACAGCCCCCGCT
GGTGCAGAACTGCCTGTGGACCTGCGCAACCTCTCAGATGTGGCCACCAAGCAGGAGGG
CCTGGAGAGTGTGCTGAAGATTCTGGTGAATCAGCTGAGTGTGGATGACGTCAACGTCT
CACCTGTGCCACGGGCACACTCTCCAACCTGACATGCAACAACAGCAAGAACAAGACGCT



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GGTGACACAGAACAGCGGTGTGGAGGCTCTCATCCATGCCATCCTGCGTGCTGGTGACAA
GGACGACATCACGGAGCCTGCCGTCTGCGCTCTGCGCCACCTACTAGCCGCCACCTGA
GGCCGAGATGGCCAGAACTCTGTGCGTCTCAACTATGGCATCCCAGCCATCGTGAAGCT
GCTCAACCAGCCAAACCAGTGGCCACTGGTCAAGGCAACCATCGGCTTGATCAGGAATCT
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CCAACTGCTGGTGAAGGCCACCAGGATGCCAGCGCCACGTAGCTGCAGGCACACAGCA
GCCCTACACGGATGGTGTGAGGATGGAGGAGATTGTGGAGGGCTGCACCGGAGCACTGCA
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GTTTGTGCAGCTCCTGTACTCGTCGTTGGAGAATCCAGCGCGTGGCTGCCGGGTGCT
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CCTGTTCCGCATCTCCGAGGACAAGAACCAGACTACCGAAGCGCGTGTCCGTGGAGCT
CACCAACTCCCTTTCAAGCATGACCCGGCTGCCTGGGAGGCTGCCAGAGCATGATTCC
CATCAATGAGCCCTATGGAGATGACTTGGATGCCACCTACCGCCCATGTAATCCAGCGA
TGTGCCCTTGACCCGCTGGAGATGCACATGGACATGGATGGAGACTACCCCATCGACAC
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CTGGCCCCAGTGCGGTTCCTCATCTGAGAGGCTCTCCGTGCAGGCGATGGGGCAAGACAG
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AAAATCTCTTGAAGTTTCAGGGACCGTCCAGGGGAGATGGGAGGAGATATGGAGTG
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CCCCTCACTCCCAGGGAGCTCTGGGGACAGCTTCTCACACCCCTGTCCACCCACACA
GCTGCCCTAGCTGACCCGAGAAGTGCTTTGGCTGACCCCTCTGGTGTGTGGTGGGGG
CTTTCTTCCCCTTCTGTTTTCAGACCCCCATTTCCCGCACATGGTGTGGGGGGCTG
GGGGAGGTCCAAGCAGAGTGTATTATTATCGCTTTATGTTTTTGGTTATTGGTTTTT
TTGTATAGACCAAGCAAAGAAAATAAAAAAACAACAAAAAAAAAAAAAAAAAAAAAAAAA
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- Restriction Sites:** Please inquire
- ACCN:** NM_002230
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
- 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:**
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_002230.1 , NP_002221.1
RefSeq Size:	3490 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

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]

Transcript Variant: This variant (1) lacks an alternate segment in the 5' UTR, compared to transcript variant 3. Variants 1-7 encode the same protein. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.