

## Product datasheet for **SC112564**

### gamma Catenin (JUP) (NM\_021991) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	gamma Catenin (JUP) (NM_021991) Human Untagged Clone
Tag:	Tag Free
Symbol:	gamma Catenin
Synonyms:	CTNNG; DP3; DP111; PDGB; PG; PKGB
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF within SC112564 sequence for NM\_021991 edited (data generated by NextGen Sequencing)

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ATGGAGGTGATGAACCTGATGGAGCAGCCTATCAAGGTGACTGAGTGGCAGCAGACATAC
ACCTACGACTCGGGTATCCACTCGGGCGCCAACACCTGCGTGCCCTCCGTGAGCAGCAAG
GGCATCATGGAGGAGGATGAGGCCTGCGGGCGCCAGTACACGCTCAAGAAAACCACCACT
TACACCCAGGGGGTGCCCCCAGCCAAGGTGATCTGGAGTACCAGATGTCCACAACAGCC
AGGGCCAAACGGGTGCGGGAGGCCATGTGCCCTGGTGTGTCAGGGCAGGACAGCTCGCTT
CTGCTGGCCACCCAGGTGGAGGGGCAGGCCAACCTGCAGCGACTGGCCGAGCCGTCC
CAGCTGCTCAAGTCGGCCATTGTGCATCTCATCAACTACCAGGACGATGCCGAGCTGGCC
ACTCGCGCCCTGCCGAGCTCACAAACTGCTCAACGACGAGGACCCGGTGGTGGTGACC
AAGGGCGCATGATTGTGAACCAGCTGTGAAGAAGGAGGCGTCGCGGGGGCCCTGATG
GGCTCGCCCCAGCTGGTGGCCGCTGTGCTGCGTACCATGCAGAATACCAGCGACCTGGAC
ACAGCCCCTGCACCACCAGCATCCTGCACAACCTCTCCACCACCGGGAGGGGCTGCTC
GCCATCTTCAAGTCGGGTGGCATCCCTGCTCTGGTCCGCATGCTCAGCTCCCCTGTGGAG
TCGGTCTGTTCTATGCCATCACACGCTGCACAACCTGCTCCTGTACCAGGAGGGCGCC
AAGATGGCCGTGCGCCTGGCCGACGGGTGCAAAAGATGGTGCCCTGCTCAACAAGAAC
AACCCCAAGTTCCTGGCCATCACCAACCGACTGCCTGCAGCTCCTGGCCTACGGCAACCAG
GAGAGCAAGCTGATCATCCTGGCCAATGGTGGGCCCCAGGCCCTCGTGCAGATCATGCGT
AACTACAGTTATGAAAAGCTGCTCTGGACCACCAAGTCTGTGGCTCAAGGTGCTATCCGTG
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CTGACCAGCAACAGCCCCGCTGGTGCAGAACTGCCTGTGGACCCTGCGCAACCTCTCA
GATGTGGCCACCAAGCAGGAGGGCCTGGAGAGTGTGCTGAAGATTCTGGTGAATCAGCTG
AGTGTGGATGACGTCAACGTCTCACCTGTGCCACGGGCACACTCTCAAACCTGACATGC
AACAAACAGCAAGAACAAGACGCTGGTGACACAGAACAGCGGTGTGGAGGCTCTCATCCAT
GCCATCCTGCGTGTGGTGACAAGGACGACATCACGGAGCCTGCCGTCTGCGCTCTGCGC
CACCTACTAGCCGCCACCCTGAGGCCGAGATGGCCAGAACTCTGTGCGTCTCAACTAT
GGCATCCAGCCATCGTGAAGCTGCTCAACCAGCCCAACCAGTGGCCACTGGTCAAGGCA
ACCATCGGCTTGATCAGGAATCTGGCCCTGTGCCAGCCAACCATGCCCCGCTGCAGGAG
GCAGCGGTATCCCCGCTCGTCCAACCTGCTGGTGAAGGCCACCAGGATGCCAGCGC
CACGTAGCTGCAGGCACACAGCAGCCCTACACGGATGGTGTGAGGATGGAGGAGNNNTG
GAGGGCTGCACCGGAGCACTGCACATCCTCGCCGGGACCCCATGAACCGCATGGAGATC
TTCCGGCTCAACACCATTCCCCTGTTTGTGCAGCTCCTGTACTCGTGGTGGAGAACATC
CAGCGCGTGGCTGCCGGGTGCTGTGTGAGCTGGCCAGGACAAGGAGGCGGCCGACGCC
ATTGATGCAGAGGGGGCCTCGGCCCCACTCATGGAGTTGCTGCACTCCCAGCAACGAGGGC
ACTGCCACCTACGCTGCTGCCGTCTGTCCGCATCTCCGAGGACAAGAACCAGACTAC
CGGAAGCGCGTGTCCGTGGAGCTCACCAACTCCCTCTTCAAGCATGACCCGGCTGCCTGG
GAGGCTGCCAGAGCATGATCCCATCAATGAGCCCTATGGAGATGACTTGGATGCCACC
TACCGCCCATGTACTCCAGCGATGTGCCCTTGACCCGCTGGAGATGCACATGGACATG
GATGGAGACTACCCCATCGACACCTACAGCGACGGCCTCAGGCCCCCGTACCCCACTGCA
GACCACATGCTGGCCTAG
    
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Clone variation with respect to NM\_021991.2  
 1675 a=>n;1676 t=>n;1677 t=>n;1678 g=>n;2089 a=>t

<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_021991 unedited            CTATCACCCGCCCGTTGCCGCAAAGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAG            CAGAGCTCGTTTGTGAAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGCG            AATTCGGCAGCAGGGTCCGGAGCAGCCGCCCGACCGCGCCGAGCTCAGTTCGCTGTC            CGCGCCGGCTCCCACCCGGCCCGACCCGACCCGGCCCGGTGAGGCCCATACTCAGTA            GCCACGATGGAGGTGATGAACCTGATGGAGCAGCCTATCAAGGTGACTGAGTGGCAGCAG            ACATACACCTACGACTCGGGTATCCACTCGGGCGCCAACACCTGCGTGCCTCCGTCAGC            AGCAAGGCATCATGGAGGAGGATGAGGCCTGCGGGCGCCAGTACACGCTCAAGAAAACC            ACCACTTACACCCAGGGGTGCCCCAGCCAAGGTGACCTGGAGTACCAGATGTCCACA            ACAGCCAGGGCCAAACGGGTGCGGGAGGCCATGTGCCCTGGTGTGTGAGGCGAGGACAGC            TCGCTTGTGTGGCCACCCAGGTGGAGGGCAGGCCACCAACCTGCAGCGACTGGCCGAG            CCGTCCCAGCTGCTCAAGTCGGCATTGTGCATCTCATCAACTACCAGGACGATGCCGAG            CTGGCCACTCGCGCCCTGCCGAGCTACCAAACCTGCTCAACGACGAGGACCCGGTGGTG            GTGACCAANGCGCCATGATTGTGAACAGCTGTGAAGAAGGAGCGTCGCGCGGGGCC            TGATGGGCTCGCCCAGCTGGTGGCCGCTGTCGTGCGTACCATGCAGAATACCAGCGACC            TGGACACAGNCCGCTGCACAACAGCATCCTGCACACCTCTCCACACCCGGGAGGGGCTGC            TCGCCATCTTCAAGTCGA</p>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_021991 unedited            GGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTCATCTGTGTTATTTTTATTTTC            TTTGCTTTGGTCTATACAAAAAACCAATAACCAAAAACATAAAGCGATAATAATAAAAC            ACTCTGCTTGGACCTCCCCAGCCCCACACCATGTGCGGGAATGGGGGGTCTGAAA            CAGGAAGGGGAAGAGAAAGCCCTCACACACACAGAGGGGTACGCCAAGAGCACTTCT            CGGGGTACGCTAGGGCAGCTGTGTGGTGGGACAGGGGTGTGAGGAAGCTGTCCCCAGAG            CTCCCTGGGGAGTGGGGTGGGCAAAGCCAATAAGCACCTGGAGAGAGAAGCTGGCA            TCTTCTGGAGCAGGTGACTCACTCCATATCTCCTCCCCATCTCCCTGGACGGTCCCTGA            ACTTTTCAAGAGAAGTTTTGGATTTTGGGGTTTGGGTCTCGAACCTGGGCCCTGGAGGC            CCTGAGGGCTTAGGGCAGTTGGTCGGTGGAGTTTCACTGAGAAAATCAGACCCAGAGAAGG            AACCAAAGCCCTCCGGGGCCAGGCAGCTGGAGACAGGGAGGCTGGAGGTTTGNAGGGG            CGTTGCTGGGGAAACAGAAATGGTACTTGAAGCTTATTGCCCAGGCCAGGGG            CGGGGAGGGGGTGCATGCCCTGGCCCTGCCAGACAGAAAACAGGACAGACCCCTTTCC            CAGAAAGACCCTCGGAGACCCTGAAGCCAGGTGCACAGAAATTACACCCGTTCCCA            GCTAGCATTTTTGCTTGCCTTGCCTGGACGAAACCTTTAAAGAGGAACGCACTGGGCC            ACGCCCTAGCCACTTGTGGTTCAATGGGGTCCCGGGCCCGAGCCCCCTTTGGGT            CAAGGGGGACCCTCTCCTTTGCCGTGTTTTCCC</p>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_021991
<b>Insert Size:</b>	3240 bp
<b>OTI Disclaimer:</b>	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).
<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).

**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\\_021991.1](#), [NP\\_068831.1](#)

**RefSeq Size:** 3192 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 (2) lacks an alternate segment in the 3' 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.