

Product datasheet for **SC109362**

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; DP111; PDGB; PG; PKGB
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC109362 sequence for NM_002230 edited (data generated by NextGen Sequencing)

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ATGGAGGTGATGAACCTGATGGAGCAGCCTATCAAGGTGACTGAGTGGCAGCAGACATNC
ACCTACGACNCGGGTATCCACTCGGGCGCCAACACCTGCGTGCCCTCCGTGAGCAGCAAG
GGCATCATGGAGGAGGATGAGGCCTGCGGGCGCCAGTACACGCTCAAGAAAACCAACT
TACACCCAGGGGGTGCCCCCAGCCAAGGTGATCTGGAGTACCAGATGTCCACAACAGCC
AGGGCCAAACGGGTGCGGGAGGCCATGTGCCCTGGTGTGTCAGGGCAGGACAGCTCGCTT
CTGCTGGCCACCCAGGTGGAGGGGCAGGCCAACCTGCAGCGACTGGCCGAGCCGTCC
CAGCTGCTCAAGTCGGCCATTGTGCATCTCATCAACTACCAGGACGATGCCGAGCTGGCC
ACTCGCGCCCTGCCGAGCTCACAAACTGCTCAACGACGAGGACCCGGTGGTGGTGACC
AAGGGCGCATGATTGTGAACCAGCTGTGAAGAAGGAGGCGTCGCGGGGGCCCTGATG
GGCTCGCCCCAGCTGGTGGCCGCTGTGTCGTACCATGCAGAATACCAGCGACCTGGAC
ACAGCCCCTGCACCACCAGCATCCTGCACAACCTCTCCACCACCGGGAGGGGCTGCTC
GCCATCTTCAAGTCGGGTGGCATCCCTGCTCTGGTCCGCATGCTCAGCTCCCCTGTGGAG
TCGGTCTGTTCTATGCCATCACACGCTGCACAACCTGCTCCTGTACCAGGAGGGCGCC
AAGATGGCCGTGCGCCTGGCCGACNGGCTGCAAAAGATGGTGGCCCTGCTCAACAAGAAC
AACCCCAAGTTCCTGGCCATCACCAACCGACTGCCTGCAGCTCCTGGCCTACGGCAACCAG
GAGAGCAAGCTGATCATCCTGGCCAATGGTGGGCCCCAGGCCCTCGTGCAGATCATGCGT
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TGTCAGCAATAAGCCTGCCATTGTGGAGGCTGGTGGGATGCAGGCCCTGGGCAAGCAC
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GATGTGGCCACCAAGCAGGAGGGCCTGGAGAGTGTGCTGAAGATTCTGGTGAATCAGCTG
AGTGTGGATGACGTCAACGTCTCACCTGTGCCACGGGCACACTCTCAAACCTGACATGC
AACAAACAGCAAGAACAAGACGCTGGTGACACAGAACAGCGGTGGGAGGCTCTCATCCAT
GCCATCCTGCGTGTGGTGAACAAGGACGACATCACGGAGCCTGCCGTCTGCGCTCTGCGC
CACCTACTAGCCGCCACCCTGAGGCCGAGATGGCCAGAACTCTGTGCGTCTCAACTAT
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ACCATCGGCTTGATCAGGAATCTGGCCCTGTGCCAGCCAACCATGCCCCGCTGCAGGAG
GCAGCGGTATCCCCGCTCGTCCAACCTGCTGGTGAAGGCCACCAGGATGCCAGCGC
CACGTAGCTGCAGGCACACAGCAGCCCTACACGGATGGTGTGAGGATGGAGGAGATTGTG
GAGGGCTGCACCAGGACTGCACATCCTCGCCGGGACCCCATGAACCGCATGGAGATC
TTCCGGCTCAACACCATTCCTGTTTGTGCAGCTCCTGTACTCGTGGTGGAGAACATC
CAGCGCGTGGCTGCCGGGGTGTGTGTGAGCTGGCCAGGACAAGGAGGGCGGCCGACGCC
ATTGATGCAGAGGGGGCCTCGGCCCACTCATGGAGTTGCTGCACTCCCAGCAACGAGGGC
ACTGCCACCTACGCTGCTGCCGTCTGTTCCGCATCTCCGAGGACAAGAACCAGACTAC
CGGAAGCGCGTGTCCGTGGAGCTACCAACTCCCTCTTCAAGCATGACCCGGCTGCCTGG
GAGGCTGCCAGAGCATGATCCCATCAATGAGCCCTATGGAGATGACATGGATGCCACC
TACCGCCCATGTACTCCAGCGATGTGCCCTTGACCCGCTGGAGATGCACATGGACATG
GATGGAGACTACCCATCGACACCTACAGCGACGGCCTCAGGCCCCCGTACCCCACTGCA
GACCACATGCTGGCCTAG
    
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Clone variation with respect to NM_002230.2
 59 a=>n;70 t=>n;805 g=>n

5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_002230 unedited GTTTTCAGNATTTGTATACGACTCATATAGGCGGCCGCGNAATTCGCACGAGGGCCGCC GACCACGCCGAGCTCAGTTTCGCTGTCCGCGCCGGCTCCCACCCCGGCCGACCCCGACCC GGCCCGGTGAGGCCCATACTCAGGTGCGGGCTATCGGGGGCGCAGTAGCCACGATGGAG GTGATGAACCTGATGGAGCAGCCTATCAAGGTGACTGAGTGGCAGCAGACATACACCTAC GACTCGGGTATCCACTCGGGCGCCAACACCTGCGTGCCCTCCGTGAGCAAGGGCATC ATGGAGGAGGATGAGGCCTGCGGGCGCCAGTACACGCTCAAGAAAACCACTTACACC CAGGGGGTGCCCCCAGCCAAGGTGACCTGGAGTACCAGATGTCCACAACAGCCAGGGCC AAACGGGTGCGGGAGGCCATGTGCCCTGGTGTGTGAGGCGAGGACAGCTCGCTTCTGCTG GCCACCCAGTGGAGGGCAGGCCACCAACCTGCAGCGACTGGCCGAGCCGTCCCAGCTG CTCAAGTCGGCCATTGTGCATCTCATCACTACCAGGACGATGCCGAGCTGGCCACTCGC GCCCTGCCGAGCTACCAAACTGCTCAACGACGAGGACCCGGTGGTGGTACCAAGGCG GCCATGATTGTGAACAGCTGTGAAGAAGGAGGCGTCCGCGGGGCCCTGATGGCTCG CCCCAGCTGGTGGCCGTGTCGTGCGTACCATGCAGAATACCAGCGACCTGGACACAGCC CGCTGCACCACCAGCATCTGCACAACCTCTCCACCACCGGGNAGGGGTGCTCGCCAT CTCAAAGTCGGTGCCATCCCTGCTCTGGTCCGCATGCTCAGCTCCCCTGTGGNAGTCGG TCCTGTTCTATG</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_002230 unedited GTTTTTCTTTTCTTTGCTTTGGTCTATACCAAAAAACCAATAACCAAAAAATAAAGC GATAATAATAAAACACTCTGCTTGGACCTCCCCAGCCCCCACACCATGTGCGGAAAT GGGGGGTCTGAAACAGGAAGGGGAAGAGAAAGCCCTCACACACACCAGAGGGTTCAG CCAAGAGCACTTCTCGGGTTCAGCTAGGGCAGCTGTGTGGTGGGACAGGGGTGTGAGGA AGCTGTCCCCAGAGCTCCCTGGGAGTGAGGGTGGGCAAGCCAACTAAGCACCCCTGGA GAGAGAAGCTGGCATCTTCTGGAGCAGGTGACTCACTCCATATCTCTCCCCATCTCCCC TGGACGGTCCCTGAACCTTTCAAGAGAAGTTTGGATTTTGGGGTTTGGGTCTCGAACC TGGGCCCTGGAGGCCCTGGGGCTTAGGGCAGTTGGTCCGTGGAGTTCAGTGAGAAAATC AGACCCAGAGAAGGAACCAAGCCCTTCCGGGCCAGGCAGCTGGAGACAGGGAGGCTGG AGTTTGGAGGGCGTTGCTGGGGAAAACAGAATGGTACTTGGTCTGAAGCTTAGT GGCCAGGGCCACAGGGCGGGGAGGGGTGTCAGGCCCTGGACCCATGCCCGGACAGAA AAGCAGGAGCAGCACTATCCCCAAGAAGACCCCTCCGAGGACCTCTGGAAGCCCCAGG TGACCACGTAATTTACCCCGGCTTCCCCAATTAAGCACTTTTTTGTCTGCCCTCG CCTGCCGCTAGCCTCTCCCATGAGAACGCCCTGGCCCCAGCCTCCTAGTCCNCAGTGG CCTCCTTCGGGCTCCGCGCCCTAGCCGCCCCCTTGTCTCCTGGCGTATCCCCTTCTGC CCATTTCTTCCCCCTCAGGGCTCCCTCCTTCCCCCCCCCTTCCCTTTTCCCCC TTCGCCCTGTT</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_002230
Insert Size:	3090 bp
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).
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.