

Product datasheet for **SC337489**

alpha 1 Catenin (CTNNA1) (NM_001290309) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	alpha 1 Catenin (CTNNA1) (NM_001290309) Human Untagged Clone
Tag:	Tag Free
Symbol:	CTNNA1
Synonyms:	CAP102; MDPT2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001290309, the custom clone sequence may differ by one or more nucleotides

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ATGAAGGCTGCTGCAGGAGAGTTTCGCAGATGATCCCTGCTCTTCTGTGAAGCGAGGCAACATGGTTCGGG
CAGCTCGAGCTTTGCTCTCTGCTGTTACCCGGTTGCTGATTTTGGCTGACATGGCAGATGTCTACAATT
ACTTGTTCAGCTGAAAGTTGTGGAAGATGGTATCTTGAAGTTGAGGAATGCTGGCAATGAACAAGACTTA
GGAATCCAGTATAAAGCCCTAAAACCTGAAGTGGATAAGCTGAACATTATGGCAGCCAAAAGACAACAGG
AATTGAAAGATGTTGGCCATCGTGATCAGATGGCTGCAGCTAGAGGAATCCTGCAGAAGAACGTTCCGAT
CCTCTATACTGCATCCCAGGCATGCCTACAGCACCCCTGATGTCGCAGCCTATAAGGCCAACAGGGACCTG
ATATACAAGCAGCTGCAGCAGGCGGTACAGGCATTTCCAATGCAGCCCAGGCCACTGCCTCAGACGATG
CCTCACAGCACAGGGTGGAGGAGGAGGAGAAGTGGCATATGCACTCAATAACTTTGACAAAACAAATCAT
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GTAATGCTGTCCGCCAGGCCCTGCAGGACCTGCTTTCGGAGTACATGGGCAATGCTGGACGTAAGAAAAG
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AACAAATGTGTCATTGCTCTCCAAGAGAAGGATGTGGATGGCTGGACCCGACAGCTGGTGAATTCGAG
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GCCGTGGAAGCCCTCAGCTCGGACCCTGCCAGCCATGGATGAGAATGAGTTTTATCGATGCTTCCCGCC
TGGTATATGATGGCATCCGGGACATCAGGAAAGCAGTGTGATGATAAGGACCCCTGAGGAGTTGGATGA
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ACAAGCTTGCCCGCACCATTGCAGACCATTGCCCCGACTCGGCTTGAAGCAGGACCTGCTGGCCTACCT
GCAACGCATCGCCCTCTACTGCCACCAGCTGAACATCTGCAGCAAGGTCAAGGCCGAGGTGCAGAATCTC
GGCGGGGAGCTTGTGTCTCTGGGGTGGACAGCGCCATGTCCCTGATCCAGGCAGCCAAGAAGTGTGATG
ATGCTGTGGTGCAGACAGTGAAGGCATCCTACGTCGCCTTACCAAAATACAAAAGTACAGGGTATGGC
TTCCCTCAACCTTCTGCTGTGTCATGGAAGATGAAGGCACCAGAGAAAAAGCCATTGGTGAAGAGAGAG
AAACAGGATGAGACACAGACCAAGATTAACGGGCATCTCAGAAGAAGCAGTGAACCCGGTGCAGGCC
TCAGCGAGTTCAAAGCTATGGACAGCATCAA
    
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Restriction Sites: SgfI-RsrII

ACCN: NM_001290309

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:	<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_001290309.2 , NP_001277238.1
RefSeq Size:	3605 bp
RefSeq ORF:	2412 bp
Locus ID:	1495
UniProt ID:	P35221
Cytogenetics:	5q31.2
Protein Families:	Druggable Genome
Protein Pathways:	Adherens junction, Arrhythmogenic right ventricular cardiomyopathy (ARVC), Endometrial cancer, Leukocyte transendothelial migration, Pathways in cancer, Tight junction
Gene Summary:	<p>This gene encodes a member of the catenin family of proteins that play an important role in cell adhesion process by connecting cadherins located on the plasma membrane to the actin filaments inside the cell. The encoded mechanosensing protein contains three vinculin homology domains and undergoes conformational changes in response to cytoskeletal tension, resulting in the reconfiguration of cadherin-actin filament connections. Certain mutations in this gene cause butterfly-shaped pigment dystrophy. [provided by RefSeq, May 2016]</p> <p>Transcript Variant: This variant (3) lacks an alternate exon in the 5' end compared to variant 1. This difference causes translation initiation at a downstream AUG and results in an isoform (3) with a shorter N-terminus compared to isoform 1.</p>