

Product datasheet for **SC327233**

CTNNA2 (NM_001164883) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CTNNA2 (NM_001164883) Human Untagged Clone
Tag:	Tag Free
Symbol:	CTNNA2
Synonyms:	CAP-R; CAPR; CDCBM9; CT114; CTNR
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001164883, the custom clone sequence may differ by one or more nucleotides

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ATGACTTCGGCAACTTCACCTATCATTCTGAAATGGGACCCCAAAAGTTTGAAATCCGG
ACGCTAACAGTGGAAAGGCTGTTGGAGCCACTTGTACACAGGTGACTACACTTGTCAAC
ACAAGCAACAAAGGCCATCTGGTAAAAAGAAAGGGAGGTCAAAGAAAGCCCATGTA
GCTGCCTCTGTAGAGCAAGCCACTCAGAATTTCTGGAAAAGGGTGAACAGATCGCTAAG
GAGAGTCAAGATCTCAAAGAAGAGTTGGTGGCTGCTGTAGAGGATGTGCGCAACCAAGGT
GAGACGATGCGGATCGCCTCCTCCGAGTTTGCAGATGACCCTTGCTCGTAAAGCGC
GGACCATGGTACGGGCGCAAGGGCTTTGCTCTCCGCGGTGACACGCTTACTCATCCTG
GCGGACATGGCAGATGTCATGAGACTTTTATCCCATCTGAAAATTGTGGAAGAGGCCCTG
GAAGCTGTCAAAAATGCTACAAATGAGCAAGACCTTGCAAACGTTTTAAAGAGTTGGG
AAAGAGATGGTAAAACCTAACTATGTAGCAGCAAGAAGACAACAGGAGCTGAAGGATCCT
CACTGTCGGGATGAGATGGCAGCCGCCGAGGGGCTCTGAAGAAGATGCCACAATGCTG
TACACGGCCTCTCAAGCATTTCTCGCCACCCAGATGTGCGCGCTACGAGAGCCAACCGA
GATTATGTGTTCAAACAAGTCCAGGAGGCCATCGCCGGCATCTCCAATGCTGCTCAAGCT
ACCTCGCCCACTGACGAAGCCAAGGGCCACACGGGCATCGGCGAGCTGGCTGCGGCTCTT
AATGAGTTTGACAATAAGATTATCCTGGACCCATGACGTTTACGCGAGGCCAGGTTCCGG
CCGTCCCTGGAGGAGAGGCTGGAGAGCATCATCAGCGGCGCAGCGCTGATGGCCGACTCC
TCCTGCACGCGAGACGACCGGCGGAGAGGATCGTGGCGGAGTGAACGCCGTGCGGCAG
GCGCTCCAGGACCTGCTCAGCGAGTACATGAATAACTGGAAGGAAAGAAAAAGGAGAT
CCTCTCAACATTGCGATTGATAAGATGACTAAGAAAACAAGAGATCTAAGGAGACAGCTT
CGGAAAGCAGTGTGATCAGATACATATCTGACTCTTCTGGAAACCAATGTTCTTTGCTA
GTTCTCATTGAGGCTGCAAAGAGCGGAAATGAAAAGGAAGTGAAGAATATGCCCAAGT
TTCCGTGAGCATGCCAACAACTGGTAGAGGTTGCCAATTTGGCCTGTTCCATCTCCAAC
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CAGGTCATCAATGCCCTCTGACTGCTGCCCAGCCACAGAGCAAAGTTGCTCAGGAT
AACATGGACGCTTCAAAGACCAGTGGGAGAAGCAGGTCCGAGTGTGACAGAGGCCGTG
GATGACATCACCTCAGTGGATGACTTCTCTGTCTCAGAAAATCACATCTTGGAGGAT
GTGAACAAGTGTGTGATAGCCCTCCAAGAGGGCGATGTGGACACTCTGGACCGGACTGCA
GGGGCCATCAGGGGCCGGCAGCTCGAGTCATACACATCATCAATGCTGAGATGGAGAAC
TATGAAGCTGGGTTTATACTGAGAAGGTGTTGGAAGCTACAAAATTGCTTTCTGAAACA
GTGATGCCACGCTTCGCTGAACAAGTAGAGGTTGCCATTGAAGCCCTGAGTGCCAACGTT
CCTCAACCGTTTGAAGGAAATGAGTTCATCGATGCCTCTCGCCTGGTGTATGATGGCGTT
CGGGACATCAGAAAGGCTGTGCTGATGATCAGGACCCAGAAAGACTAGAGGATGATTCT
GACTTTGAGCAGGAAGATTATGATGTGCGTAGCAGGACAAGTGTTCAGACTGAGGATGAC
CAGTCAATTGCAGGGCAGAGCGCACGGGCCATCATGGCGCAACTACCGCAGGAGGAGAAG
GCAAAAATAGCTGAGCAGGTGGAGATATCCATCAAGAGAAAAGCAAGCTGGATGCAGAA
GTGGCCAAATGGGACGACAGCGGCAATGATATCATTGACTGGCCAAGCAGATGTGTATG
ATCATGATGAAAATGACAGACTTCAACAAGAGGCAAGGCCCAATTGAAAAATACATCTGAT
GTCATTAATGCTGCCAAGAAAATTGCCGAAGCAGGTTCTCGAATGGACAAATTAGCTCGT
GCTGTGGCTGATCAGCTGGACAGTGCCACATCGCTTATCCAGGCAGCTAAAAACCTGATG
AATGCTGTTGCTCACGGTAAAGCATCCTATGTGGCCTCAACCAAATACCAGAAGGTC
TATGGGACAGCAGCTGTCAACTCACCTGTTGTGCTTGGAAAGTGAAGGCTCCAGAGAAG
AAGCCCTTGTGAAGAGAGAAAAGCCTGAAGAATTCCAGACACGAGTTCGACGAGGTTCT
CAGAAGAAACACATTTGCCTGTACAGGCTTTAAGTGAATTCAAAGCAATGGATTCTTC

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Restriction Sites: Please inquire
ACCN: NM_001164883

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:	<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:	<u>NM_001164883.1</u> , <u>NP_001158355.1</u>
RefSeq Size:	3870 bp
RefSeq ORF:	2583 bp
Locus ID:	1496
UniProt ID:	<u>P26232</u>
Cytogenetics:	2p12
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:	May function as a linker between cadherin adhesion receptors and the cytoskeleton to regulate cell-cell adhesion and differentiation in the nervous system (By similarity). Required for proper regulation of cortical neuronal migration and neurite growth (PubMed:30013181). It acts as negative regulator of Arp2/3 complex activity and Arp2/3-mediated actin polymerization (PubMed:30013181). It thereby suppresses excessive actin branching which would impair neurite growth and stability (PubMed:30013181). Regulates morphological plasticity of synapses and cerebellar and hippocampal lamination during development. Functions in the control of startle modulation (By similarity).[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (2) lacks two consecutive exons in the 3' coding region but maintains the reading frame compared to variant 1. The resulting isoform (2) lacks an internal segment near the C-terminus compared to isoform 3.