

## Product datasheet for **SC117392**

### CTNNA2 (NM\_004389) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CTNNA2 (NM_004389) Human Untagged Clone
Tag:	Tag Free
Symbol:	CTNNA2
Synonyms:	CAP-R; CAPR; CDCBM9; CT114; CTNR
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 SC117392 sequence for NM\_004389 edited (data generated by NextGen Sequencing)

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ATGACTTCGGCAACTTCACCTATCATTCTGAAATGGGACCCCAAAAGTTTGAAATCCGG
ACGCTAACAGTGGAAAGGCTGTTGGAGCCACTTGTACACAGGTGACTACACTTGTCAAC
ACAAGCAACAAAGGCCATCTGGTAAAAAGAAAGGGAGGTCAAAGAAAGCCCATGTA
GCTGCCTCTGTAGAGCAAGCCACTCAGAATTTCTGGAAAAGGGTGAACAGATCGCTAAG
GAGAGTCAAGATCTCAAAGAAGAGTTGGTGGCTGCTGTAGAGGATGTGCGCAACCAAGGT
GAGACGATGCGGATCGCCTCCTCCGAGTTTGCAGATGACCCTTGCTCGTAAAGCGC
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GCGGACATGGCAGATGTCATGAGACTTTTATCCCATCTGAAAATTGTGGAAGAGGCCCTG
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AAAGAGATGGTAAAACCTAACTATGTAGCAGCAAGAAGACAACAGGAGCTGAAGGATCCT
CACTGTCGGGATGAGATGGCAGCCGCCGAGGGGCTCTGAAGAAGATGCCACAATGCTG
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GATTATGTGTTCAAACAAGTCCAGGAGGCCATCGCCGGCATCTCCAATGCTGCTCAAGCT
ACCTCGCCCACTGACGAAGCCAAGGGCCACACGGGCATCGGCGAGCTGGCTGCGGCTCTT
AATGAGTTTGACAATAAGATTATCCTGGACCCATGACGTTTACGCGAGGCCAGGTTCCGG
CCGTCCCTGGAGGAGAGGCTGGAGAGCATCATCAGCGGCGCAGCGCTGATGGCCGACTCC
TCCTGCACGCGAGACGACCGGCGGAGAGGATCGTGGCGGAGTGAACGCCGTGCGGCAG
GCGCTCCAGGACCTGCTCAGCGAGTACATGAATAACTGGAAGGAAAGAAAAGGAGAT
CCTCTCAACATTGCGATTGATAAGATGACTAAGAAAACAAGAGATCTAAGGAGACAGCTT
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AATGAAGAAGGGGTGAAATTAGTTCGGATGGCAGCCACCCAGATTGACAGCCTGTGTCC
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AACATGGACGCTTCAAAGACCAGTGGGAGAAGCAGGTCCGAGTGTGACAGAGGCCGTG
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GGGGCCATCAGGGGCCGGCAGCTCGAGTCATACATCATCAATGCTGAGATGGAGAAC
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CGGGACATCAGAAAGGCTGTGCTGATGATCAGGACCCAGAAAGAACTAGAGGATGATTCT
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CAGCTCATTGCAGGGCAGAGCGCACGGGCCATCATGGCGCAACTACCGCAGGAGGAGAAG
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GTGGCCAAATGGGACGACAGCGGCAATGATATCATTGACTGGCCAAGCAGATGTGTATG
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GTCATTAATGCTGCCAAGAAAATTGCCGAAGCAGGTTCTCGAATGGACAAATTAGCTCGT
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CGAATTGCCTTGTATTGCCATCAGCTTAATATCTGAGCAAGGTGAAGGCAGAAGTGCAG
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AAATACCAGAAGGTCTATGGGACAGCAGCTGTCAACTCACCTGTTGTGTCTTGAAGATG
AAGGCTCCAGAGAAGAAGCCCTTGTGAAGAGAGAAAAGCCTGAAGAATCCAGACACGA
GTTTCGACGAGTTCTCAGAAGAAACACATTTCCGCTGTACAGGCTTTAAGTGAATTCAA
GCAATGGATTCTTCTAG
    
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Clone variation with respect to NM\_004389.3  
705 t=>g;1800 t=>c

<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_004389 unedited</p> <pre>GTCAGCATTTGAAACACGACTTCACTATAGGGCGGAACGCCATTCGGCACGAGGCCGCC GCCTCTCCAGTCCCTTCTGTGATTACCACCCACCTGCTGGGAACGGGCGAGAAAGAGGA GGAGGCGAGAACTCCCACCCGACCCACAGAGGGAGCATGACTTCGGCACTTCACCCATC ATTCTGAAATGGGACCCAAAAGTTTGGAAATCCGGACGCTAACAGTGGAAAGGCTGTTG GAGCCACTTGTTACACAGGTGACTACACTTGTC AACACAAGCAACAAAGGCCCATCTGGT AAAAAGAAAGGGAGGTCAAAGAAAAGCCCATGTACTAGCTGCCTCTGTAGAGCAAGCCACT CAGAATTTCTGGAAAAGGGTGAACAGATCGCTAAGGAGAGTCAAGATCTCAAAGAAGAG TTGGTGGCTGCTGTAGAGGATGTGCGCAAACAAGGTGAGACGATGCGGATCGCCTCTCC GAGTTTGCAGATGACCCTTGCTCGTAAAGCGCGGACCATGGTACGGGCGGCAAGG GCTTTGCTCTCCCGCGGTGACACGCTTACTCATCTGGCGGACATGGCAGATGTCATGAG ACTTTTATCCCATCTGAAAATTGTTGGAAGAGGCCCTGGAAGCTGTCAAAAATGTACAA ATGAGCAAGACCTTGCAAACGTTCTAAGAAGTTCGNNGAAAGCAGATGGNTGAAACCT TACCTATGTAGCAGCCACGAAGACAACAGGAGCCTGAAGGATCCCTCACTGTNCGGGAAT GAGAATGCCAGCCGCCCCGAGGGGCTCTGAAAAAAGAAAGCCACATTGCTGTACACGGCC TCTCAAGCATTTCTCCGCCCCCAAATGTCGCCGCGACGAGAGCCACCCGAGAATTTAT TGGTTCAACCAAGTTCGGAGGCCCTCGCCGGTCTCAAATGCTTGTTAGCTACCTCG CCA</pre>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_004389 unedited</p> <pre>GGGGGGGGCCCCCGCNCACAAAAAGATTTTTTGTGTCTTTCTTGTGTTAGT TGTGAATCAATGGTTATTAGCAACCAGCACTCCAAGCTACACCTATGTATTTGCCTTAA CTTTCACACGTTGTCAGTTTCCTTCCCTAATAATTCACCACTGGGCCTTCTATTCCCTA GCAAAATCATGGTTCAAATTAATAAGAAAAAATGAAAGCAAGATTGGTCACCGTAT TGTGCTCCAGTGCCCCCAGAAGGATTTAATTGTCTCAAATATATGTTTATTGTTTTCA TTAAAGGGGGGAAAAAACATTACTAGTAATGGCACAAGTAGAAGAGGAAACAGAAT GCACATTAACAAGCATTTTAGGCTGGACTAGTTAATTTCCCTCAGTTAAAAATCGAC ATAATATCACGGATATACACTTCAAGGTTAAATGTTCAATCCATGGGCCACACACTTAA GCGTATTGCTACCCATTCCTGCACTGAAACAGAGCTATCCAAGCTTTATGTTTACCA TTACACTTCCAGATTCCCTCACTTATGCATATACCTGCCAATCTAATGACTCCTGCATGCA TTAATATATGCCTTCGTGAGTTAATGATTATCTCCGAACCTCCCACTTCATATTTTTT GCCCTCATGCAAACTCCGATGCCAACCCCTCAAGAAAATGTCCCAAGGACCCATTTTGT GCTATCTTAATAACAAGAAATCGTCTCTGGATTCTCTTCCCCACTTTACAGATTGGC CCACGCTCTCCCTCTATCCCTTCTTCTATCACCATTCTTACCCCTACTGTTTACCT TCAATTCTCTCCTTGCCCCACAGGATTCACGTATTATGAACAGTTTTTCTCTCTTCA CGGCTCTCCCTATCACTAACCAACCATTCATCCTGATTACTTTTTTTTTTCTT</pre>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_004389
<b>Insert Size:</b>	4110 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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_004389.2</a> , <a href="#">NP_004380.2</a>
<b>RefSeq Size:</b>	3853 bp
<b>RefSeq ORF:</b>	2718 bp
<b>Locus ID:</b>	1496
<b>UniProt ID:</b>	<a href="#">P26232</a>
<b>Cytogenetics:</b>	2p12
<b>Domains:</b>	Vinculin
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Adherens junction, Arrhythmogenic right ventricular cardiomyopathy (ARVC), Endometrial cancer, Leukocyte transendothelial migration, Pathways in cancer, Tight junction
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (1) lacks an in-frame exon in the 3' coding region compared to variant 3. The resulting isoform (1) lacks an internal segment near the C-terminus compared to isoform 3. CCDS Note: The coding region has been updated to remove a 3-nt insert (encoding Ser-310) that was present in the NCBI Build 36 reference genome assembly. This insert has been removed in the GRCh37 reference genome, and its absence is supported by transcript data.</p>