

## Product datasheet for **SC123568**

### CTNNA3 (BC022004) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CTNNA3 (BC022004) Human Untagged Clone
Tag:	Tag Free
Symbol:	CTNNA3
Synonyms:	alpha-catenin-like protein; alpha-T-catenin; catenin (cadherin-associated protein), alpha 3; catenin, alpha 3; MGC26194; MGC75041; OTTHUMP00000019684; VR22
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:**

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>OriGene sequence for BC022004 edited
AGCGGGCTTTTCAGGCTGTTTGCTTACAGATGCATCATAAGCCAAATTGTGAGCCATGAT
AGTGGCACTGAATTTCTAAATACAAGAAATTGCTTAGACAATTGGTTTAGTATCTGTATA
TGGGCAACTACTCTGTCTGCAGTAGCTGAATCGCTGAGAAAAGAGACCATGTTTCTACTT
TTAGAAGGAGAATGAAATCAACGCAAAGGAGAGAGAAAACAAGGCAGCATGTCAGTGAAA
CACCAATCACATTGAATATCGATCCTCAGGATCTGCAGGTCCAACATTCACCGTGGAGA
AGCTACTGGAGCCTCTCATAATCCAGGTTACCACACTTGTAACACTGTCCCAGAACCCTT
CCAGCAGGAAAAAAGGACGTTTCGAAAAGAGCCAGTGTCTTCTAGCTTCTGTGGAGGAAG
CAACTTGGAAATTTATTAGACAAGGGAGAGAAGATTGCCAGGAAGCTACAGTTTTAAAGG
ATGAGCTTACGGCTTCACTTGAGAAAAGTTCGAAAAGAAAGTGAAGCTCTGAAAGTACAG
CTGAGAGATTTACAGATGACCCCTGTTTTCTCCAAAAAGGGAGGCTGTGGTTCAAGCTG
CCCCTGCCTTGTGGCTGCGGTGACGAGACTCCTTATCCTTGGGACATGATTGATGTCA
TGTGCCTCTTGCAACATGTGTCAGCTTTTCAAAGGACATTTGAGTCTCTCAAAAATGTTG
CCAACAAATCTGACCTCCAGAAAACCTACCAGAAGCTTGGGAAGGAGCTGAAAAATTTGG
ATTATTTAGCCTTCAAACGTGACGAGACTTAAAATCTCAAATCAGAGAGATGAAATTG
CAGGAGCCCGAGCTTCACTGAAGGAGAAGTCTCCCTCTTGCATTCAATTTGTTAGCTT
GTTTGGAGCATTCTGATGTTGCTTCCCTCAAAGCAAGCAAGGACACAGTTTGTGAAGAAA
TTCAGAATGCTCTCAATGTAATTTCAAATGCTTCAAGGGATCCAGAATATGACAACCC
CACCAGAACCTCAGGCAGCAACCCTGGGAAGTGCCTTGTAGAGCTGGAGAATTTAATTG
TCCTGAATCCACTCACAGTAACTGAGGAGGAAATACGACCATCACTAGAGAAAACGCTTG
AAGCCATTATCAGTGGGGCTGCTCTGCTGGCGGATTCTCATGTACGAGGGACTTACACC
GAGAGCGGATTATCGCAGAATGCAACGCCATTGCGCAGGCTCTTCAGGATCTGCTTTCAG
AGTACATGAACAACCTCTGTAATCAAAGTCTGACCTGGGCCTCACTGGAGTAAAAATCA
AATTGTTGGAGGAATGCATTATTTTCTGGAGTCTCTAGGGAAGAGTCCATTATTTTTGCC
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TAAGCCAGCAACGTCATGTTTCTGACCTGCTTCAAACCTCACATCTTTTCTGAC
CACACCTTGAAAAGATTCTTTCTTTTAGGACTCATGTGATTAGTGGGAGCCACCAGAG
TTATCCAGGATAATCCTCCCATCTGAAGGCCCTTAACCTTAATTACATCTGCAAAATCCC
TCTTGCCATGTCAGGTAACATATTCATAGGTTCTGGGAATTTGAATGTGGACATCTCTGG
GAGACTCACACATTATATCAATACTAGTCTTCCCTAGTCTCTTTGGTGGAAATCATTATC
AATCCTTTTCAATTCGAATCCATTATAGACAGCATCCCTCATACTTTAAGTTCTGTGCA
GGCAGATCACATGTCTGTTTTGTTAGTTTTATCCCAAGCCTCAGGCACAATGCATAGAA
TTTAGAAAAAGCTGAATTGTATTTTTGGATGAAAGAGTGAATGAAATGATTGCATGTTGT
ATATGCCATGTAATGGAGAAACAGCCTCTCTGACATTAAGTAAATGAGTTTCAAGCATC
TACTACATTTATACAATGGACTGCCTGTTATAAAAAGGCTTATTTTGGAAAGCATTAAAT
CTCTTCTGGAAATCAATGTAAATATCCAGAAATAAATCTTTTTTATCTTAATCTCTGCA
TTTGGATGTGTTAGATAGGTAACATATAATTATTAGTAAAGTTAATATTCAGGTGATACA
TGACTATAGGGGATTATTAGAACTGAGTGAGAGATAATGCTGCTAGAGTAAACAAGTCAG
ATCTGAGCTCCATGCAGGAACATAATTTGCATTTCTGGACCTCTCATCCACCCACTTGTTT
CTTCTCTGGTGTGTTTTATGTGGAAGCACATTGTTGGTTCTCATTACGTATTTGCTGAGTG
AATAAAGAATCAATGGACTGGCAAAAAAAAAAAAAAAAAA
    
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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for BC022004 unedited GTTAGCATTTGTAACGACTTATATAGGCGGCCGATAAECTTCGTATAGCATACATTATA TTAAGTTATGGATCAAGCCAAATCGGCCGAGCTCGAATTCGTGAGAGCGGGCTTTTCAA GCTGTTTGCTTACAGATGCATCATAAGCCAAATTTGTGAGCCATGATAGTGGCACTGAATT TCTAAATACAAGAAATGCTTAGACAATTGGTTTAGTATCTGTATATGGGCAACTCTG TCCTGCAGTAGCTGAATCGCTGAGAAAAGAGACCATGTTTCTACTTTTAGAAGGAGAATG AAATCAACGCAAAGGAGAGAGAAAACAAGGCAGCATGTCAGCTGAAACACCAATCACATTG AATATCGATCCTCAAGATCTGCAGGTCCAACATTCAACCGTGGAGAAGCTACTGGAGCCT CTCATAATCCAGTTACACACTTGTAACCTGTCCCCAGAACCCCTCCAGCAGGAAAAAA GGACGTTGAAAAGAGCCAGTGTCTTCTAGCTTCTGTGGAGGAAGCAACTTGGAAATTTA TTAGACAAGGGAGAGAAGATTGCCAGGAAGCTACAGTTTTAAAGGATGAGCTTACGGCT TCACTTGAGGAAGTTTGCAAAGAAAGTGAAGCTCTGAAAGTATCAGCTGAGAGATTTACA GATGACCCCTGTTTTCTCCAAAAGGGAGCTGTGGTTCAAGCTGCCCGTGCCTTGCTGG CTGCGGTGACCAGACCTCTTATCCTGCGGACATGATTGATGTCATGTGCCTCTTGACA TGTGTCAACTTTTCAAGGAAATTTGAGTCTCTCAAAAATGTTGCCAACAACTGACCTCC GGAATACCACCAGAACTTGGAAGGACCTGGAATTTGGATAATTAACCCTCCAACGTC AGCCGAGACTAAATACCN
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	BC022004
<b>Insert Size:</b>	2379 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>	<u><a href="#">BC022004.1</a></u> , <u><a href="#">AAH22004.1</a></u>
<b>RefSeq Size:</b>	2379 bp
<b>Locus ID:</b>	29119
<b>Cytogenetics:</b>	10q21.3
<b>Protein Pathways:</b>	Adherens junction, Arrhythmogenic right ventricular cardiomyopathy (ARVC), Endometrial cancer, Leukocyte transendothelial migration, Pathways in cancer, Tight junction

**Gene Summary:**

This gene encodes a protein that belongs to the vinculin/alpha-catenin family. The encoded protein plays a role in cell-cell adhesion in muscle cells. Mutations in this gene are associated with arrhythmogenic right ventricular dysplasia, familial 13. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2014]