

Product datasheet for **SC321683**

Syntrophin alpha 1 (SNTA1) (NM_003098) Human Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | Syntrophin alpha 1 (SNTA1) (NM_003098) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | Syntrophin alpha 1 |
| Synonyms: | dj1187J4.5; LQT12; SNT1; TACIP1 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC (PS100020) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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Fully Sequenced ORF: >OriGene sequence for NM_003098.2
 GGCGGCTGGCCAGCCGGGCCCCCGCTGCCCTCTGCCCTGGGCGCTTGGTCGGAGCGGGC
 TGGGCAAAGCGGGACAGGGCGAGCGCGGGCCCGGGGGCTCGGAGGCGAAGATGGCGTC
 CGGCAGGCGCGCCCGCGCACCGGGCTGCTGGAGCTGCGCGCCGGGGCGGGCTCGGGGGC
 CGGCGGCGAGCGATGGCAGCGGGTGTGCTGAGTCTGGCGGAGGACGTGCTGACCGTGAG
 CCCCAGCGACGGGACCCCTGGTCCCGAGCCCGGCGCTCCGCGGGAGCAGGAGCCCGCGCA
 GCTCAACGGCGCCGCGGAGCCGGGCGCCGGGCCCCCGAGCTGCCAGAGGCGCTACTGCT
 CCAGCGGCGCCGCTGACGGTGCACAAGGCCGACGCCGGTGGGCTGGGCATCAGCATCAA
 AGCGGGCCGGGAGAACAAGATGCCTATTCTCATTTCCTCAAGATCTTCAAGGATTGGCAGC
 TGACCAGACAGAGGCCCTTTTTGTGGGGATGCCATCCTGTCTGTGAATGGGAAGACTT
 GTCCTCTGCTACCCATGATGAGGCGGTGCAGGTCTCAAGAAGACAGGCAAGGAGGTGGT
 GCTGGAGGTCAAGTATATGAAGGACGTCTACCGTATTTCAAGAACTCTACTGGTGGAC
 CTGGTGGCTGGGACTCACCTCCTGCCTACCCCTTCAGCGGCAGCCTTCTCCCTGG
 CCCCACACCCCGAACTTCAGCGAGGCCAAACACATGTCCTTGAAGATGGCATATGTCTC
 GAAGAGGTGCACCCCAATGACCCGAGCCAGGTATCTGGAGATCTGCTCGGCAGATGG
 TCAAGACACCCTTCTCCTGAGGGCCAAGGATGAGGCTAGTGCGAGGTCTGGGCGACTGC
 CATCCAAGCCCAGGTCAATACTCTGACGCCGCGGGTCAAGGATGAGCTGCAGGCACTGTT
 GGCAGCCACCAGCACAGCTGGGAGCCAGGACATCAAGCAGATTGGCTGGCTAACTGAGCA
 GCTGCCAGTGGGGGACAGCCCCACCCTGGCCCTGCTAACTGAAAAGGAACTGCTCCT
 CTACTTGTCTCTCCCGAGACCCGCGAGGCCCTGAGCCGGCCAGCCCGTACTGCCCACT
 CATCGCCACCAGACTGGTGCCTCAGGCCCTCCAAGGGCTCAGTGCCTACGATGCAGA
 GCTCTCTTTTGCCTGCGCACGGGACGCGTACGGTGTGGACTCACCTGTTTACGCGT
 GGAGTCACCGCAGGAGCTGGCTGCCTGGACCCGCCAGCTTGTGGATGGCTGTCACCGGGC
 CGCCGAGGGTGTGCAGGAGGTGTCTACAGCCTGCACGTGGAATGGGCGTCCCTGCAGCCT
 GTCTGTGCACATCGACAAGGGCTTCACACTGTGGGCGGCTGAGCCAGGTGCAGCCGAGC
 TGTGCTCCTGCGACAGCCCTTCGAGAAGCTGCAGATGTCTTCAAGTACGGTGCAGTCT
 CCTTTTCTGGATTTTGGAGGTGCTGAAGGCGAGATCCAGCTGGACCTGCACTCGTGTCC
 CAAAACCATAGTCTTTCATCCTCCTCCTTCTGTGCGCCAAAGTACCCGCTCGGGCT
 GTTGGCCTAGAAGTCGCCGGATGCACTAGCCCTGAAGAGGGGTGCCATGACATGGCCTG
 AGCTGGGCTCCACCGACTGCCTGCTCACCCCTGGGCTGAGGGAAGGGAGAGGAGAGGAA
 CAAGGGCTCCGAAACCCCAACCCTGAGGGAGACTGGATTGGTCTTGGGGCCAGGACCC
 AGACGCAGGACAGAGTGGACTCTGCCTGTGATGGGGTGGCCTTCTGCTGCCCCCTCCA
 CAGTGCCTTTTGCAGAGAGATATTTTGTGTACACAGAAGCCATTCCGAGTCTGGGACCT
 GCCCTGTGCGGATCCTGACCCAGCCAACAGCTGAGCTGCCGGGCTCCTCGAGGCCCC
 TAAGCCACCCCAAGAGTCCCATCTGAAGCTGGAGTACCCTGGGGTCCAGCAGCAAGAGAA
 AGAAGAGGAGATTTTCTGTTTGTTCCTCCTCAGCCCTGCCACCGTGGGGAGTCTGGTT
 TTTCTCTCATCTGTCTCTCCTCCTTACTCTTGGATAAATAAACAGCCTGTGAGCAC
 ACAGGCAGCCCGGAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_003098

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.

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| 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_003098.2</u> , <u>NP_003089.1</u> |
| RefSeq Size: | 2345 bp |
| RefSeq ORF: | 1518 bp |
| Locus ID: | 6640 |
| UniProt ID: | <u>Q13424</u> |
| Cytogenetics: | 20q11.21 |
| Domains: | PDZ, PH |
| Gene Summary: | Syntrophins are cytoplasmic peripheral membrane scaffold proteins that are components of the dystrophin-associated protein complex. This gene is a member of the syntrophin gene family and encodes the most common syntrophin isoform found in cardiac tissues. The N-terminal PDZ domain of this syntrophin protein interacts with the C-terminus of the pore-forming alpha subunit (SCN5A) of the cardiac sodium channel Nav1.5. This protein also associates cardiac sodium channels with the nitric oxide synthase-PMCA4b (plasma membrane Ca-ATPase subtype 4b) complex in cardiomyocytes. This gene is a susceptibility locus for Long-QT syndrome (LQT) - an inherited disorder associated with sudden cardiac death from arrhythmia - and sudden infant death syndrome (SIDS). This protein also associates with dystrophin and dystrophin-related proteins at the neuromuscular junction and alters intracellular calcium ion levels in muscle tissue. [provided by RefSeq, Jan 2013] |