

## Product datasheet for **SC324617**

### CASQ1 (NM\_001231) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CASQ1 (NM_001231) Human Untagged Clone
Tag:	Tag Free
Symbol:	CASQ1
Synonyms:	CASQ; PDIB1; VMCQA
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\_001231.3  
 GCCCTCTGTCCACTGCTCTGGGCCATTCCCAATCCCCCTCCCACTTGAGCCCCTAACT  
 CAGAATCTGGGACCCAGGGGCCCTCCCTACCCAGCTAACCTCTTCTGGACCAGGAGAG  
 CCAACCCAGATCCCACTACCTCCATGAGTGCTACAGACAGGATGGGGCCAGAGCTGTGC  
 CGGGTCTCGGGCTGGCACTGCTGTTGCTGCTGGTGTAGGGACACCAAGTCAGGGGTAC  
 AGGGCAGGAAGGGCTGGACTTCCCTGAGTACGATGGTGTGGACCGTGTGATCAATGTCA  
 ATGCAAAGAACAACAAGAATGTGTTCAAGAAGTATGAGGTGCTGGCACTCCTCTACCATG  
 AACCCCCGAGGATGACAAGGCCTCACAAAGACAATTTGAGATGGAGGAGCTGATCCTGG  
 AGTTAGCAGCCCAAGTCCTAGAAGACAAGGGTGTGGCTTCGGGCTGGTACTCTGAGA  
 AGGATGCAGCTGTGGCAAGAACTAGGCCTAACTGAAGTGGACAGCATGTATGTATTCA  
 AGGGAGATGAAGTCATTGAGTACGATGGCGAGTTTTCTGCTGACACCATCGTGGAGTTTC  
 TGCTTGATGTCCTAGAGGACCCTGTGGAATTGATTGAAGTGAACGAGAGCTGCAGGCGT  
 TTGAGAATATTGAGGATGAGATCAAACCTATTGGCTACTTCAAGAGCAAAGACTCAGAGC  
 ATTACAAAGCCTTCGAGGATGCAGCTGAGGAGTTTCATCCCTACATCCCCTTCTCGCCA  
 CCTTCGACAGCAAGGTGGCAAAGAAGCTGACCCTGAAGCTGAATGAGATTGATTTCTACG  
 AGGCCTTCATGGAAGAGCCTGTGACCATCCAGACAAGCCAATAGCGAAGAGGAGATTG  
 TCAACTTCGTGGAGGAGCACAGGAGATCAACCCTGAGGAACTGAAGCCGGAGAGTATGT  
 ATGAGACCTGGGAGGATGATATGGATGGAATCCACATTGTGGCCTTCGCAGAGGAAGCTG  
 ATCCTGATGGTTTCGAGTTCTTAGAGACTCTCAAGGCTGTGGCCCAAGATAACACTGAAA  
 ACCCAGATCTTAGCATCATCTGGATTGACCCTGATGACTTCCCCCTGCTGGTCCCATACT  
 GGGAGAAGACGTTTGACATCGACTTGTGACCCCCACAAATAGGAGTCGTCAATGTTACTG  
 ATGCGGATAGCGTATGGATGGAATGGACGATGAGGAGGACCTGCCTTCTGCTGAGGAGC  
 TGGAGGACTGGCTGGAGGATGTCCTGGAGGGCGAGATCAACACAGAGGACGATGACGATG  
 ATGATGATGACTAGTTGCTATGGCAACCATCTTTCAGCCCCACTGGTCTTTTCATGCTCT  
 CTCTGCCTTCCCTGTCTTCCCTGAGTTCCTCCAGGGAGACTAGGTTATTCTCTGCCA  
 TAGAGCTAACTGGGGTCTATATGCTGGGTGCTGAGACTGATCCCCCTCATTTGATGAG  
 CAAATGAGCTACTTTCCCTAGACACCAGGCCAGCTCTCTTATCTGACTTCTGTTTCT  
 TATCCATAACTACTTGTATCTATTATGTGTCTTCCATCACTCTCCATACTCTTTCT  
 TGTGATTCTCTAGCCATATATATGGGCCCATCTCTGTTCTGTTCCCTCCATCTATG  
 CACAGCTTCCCCACTCTCTAATCCTGTATCTTCTGACTGCTCTGCTTGGCCAG  
 AAGGAAGGGAGAATACTGTGTTGGGACTGTATCTCAGCAATCACTTGTTAATGATTTG  
 GGTCAAATGAGAGGCCTCAATAAAGACATCTGGGGCACCAAAAAAAAAAAAAAAAAAAAA  
 AAAAAAA

**Restriction Sites:** Please inquire

**ACCN:** NM\_001231

**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:**

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\\_001231.3](#), [NP\\_001222.2](#)

**RefSeq Size:** 1993 bp

**RefSeq ORF:** 1173 bp

**Locus ID:** 844

**UniProt ID:** [P31415](#)

**Cytogenetics:** 1q23.2

**Domains:** Calsequestrin

**Gene Summary:** This gene encodes the skeletal muscle specific member of the calsequestrin protein family. Calsequestrin functions as a luminal sarcoplasmic reticulum calcium sensor in both cardiac and skeletal muscle cells. This protein, also known as calmitine, functions as a calcium regulator in the mitochondria of skeletal muscle. This protein is absent in patients with Duchenne and Becker types of muscular dystrophy. [provided by RefSeq, Jun 2013]