

## Product datasheet for SC119363

### 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:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC119363 sequence for NM_001231 edited (data generated by NextGen Sequencing)

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ATGAGTGCTACAGACAGGATGGGGCCAGAGCTGTGCCGGTCTGCGGCTGGCACTGCTG
TTGCTGCTGGTGCTAGGGACACCCAAGTACAGGGGTACAGGGGCAGGAAGGGCTGGACTTC
CCTGAGTACGATGGTGTGGACCGTGTGATCAATGTCAATGCAAAGAACTACAAGAATGTG
TTCAAGAAGTATGAGGTGCTGGCACTCCTACCATGAACCCCCGAGGATGACAAGGCC
TCACAAAGACAATTTGAGATGGAGGAGCTGATCCTGGAGTTAGCAGCCCAAGTCTAGAA
GACAAGGGTGTGGCTTCGGGCTGGTAGACTCTGAGAAGGATGCAGCTGTGGCCAAGAAA
CTAGGCCCTAACTGAAGTGGACAGCATGTATGTATTCAAGGGAGATGAAGTCATTGAGTAC
GATGGCGAGTTTTCTGCTGACACCATCGTGGAGTTTCTGCTTGATGTCCTAGAGGACCT
GTGGAATTGATTGAAGGTGAACGAGAGCTGCAGGCGTTTTGAGAATATTGAGGATGAGATC
AAACTCATTGGCTACTTCAAGAGCAAAGACTCAGAGCATTACAAAGCCTTCGAGGATGCA
GCTGAGGAGTTTTCATCCCTACATCCCCTTCTTCGCCACCTTCGACAGCAAGGTGGCAAAG
AAGCTGACCCTGAAGCTGAATGAGATTGATTTCTACGAGGCCCTTCATGGAAGAGCCTGTG
ACCATCCCAGACAAGCCAATAGCGAAGAGGAGATTGTCAACTTCGTGGAGGAGCACAGG
AGATCAACCCTGAGGAACTGAAGCCGGAGAGTATGTATGAGACCTGGGAGGATGATATG
GATGGAATCCACATTGTGGCCTTCGCAGAGGAAGCTGATCCTGATGGTTTTCGAGTTCTTA
GAGACTCTCAAGGCTGTGGCCCAAGATAAACTGAAAACCCAGATCTTAGCATCATCTGG
ATTGACCCTGATGACTTCCCCTGCTGGTCCCATACTGGGAGAAGACGTTTGACATCGAC
TTGTGAGCCCAACAATAGGAGTCGTCAATGTTACTGATGCGGATAGCGTATGGATGGAA
ATGGACGATGAGGAGGACCTGCCTTCTGCTGAGGAGCTGGAGGACTGGCTGGAGGATGTC
CTGGAGGGCGAGATCAACACAGAGGACGATGACGATGATGATGACTAG

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Clone variation with respect to NM\_001231.4



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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_001231 unedited NGGTCTATCACCCGCCCGTTGNCNCAAAGGGCGGTAGGCGGTACGGTGGGNAGGTCTAT ATAAGCAGAGCTCGTTTGTGAAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGG CCGCGAATTCGGCACCAGCTTATACCTCCCCTCCCCAGCCCCAGCTTCATTTACCTCCG ACTCATCTGGTCTATTTTTAGCTCCGGCATCTCTCTTTTCTTTCTTAATATGGCGAT GAGCTCTTAGGCCAGTGTGGGGACCGGGCTGAGGTGCCCTGGACACTGGAGGAGGGGA GGAAGGAGCCCCCTGGGAGCCTGGGGTAGAAGTGTAGGAGTGGGAGGATTCCGGCCCCG ATGGAGCTGTCTGGCCTCAGAAGTTATCCGTCTCTCCTGCCAACCATGGAGACATATT TAGACAGGACCAGGTGGGACTGAGGGGTGCCAATTTACGGGGCAGCTCCGGTTCCTC CCCGCCCTGTCTATTCTCCACCTGACCCTTTTCCCTTGCTCTGTGGCAGTTT CTCCAGGACCCAGCAGTGCCTCTGTCCACTGCTCTGGGCCATCCCAATCCCCCTCC CACTTGAGCCCCTAACTCAGAATCTGGGACCCAGGGGCCCTCCCTACCCAGCTAACCT CTTCTGGACCAGGAGAGCAACCCAGATCCCACTACCTCCATGAGTGCTACAGACAGGAT GGGGCCCAGAGCTGTGCCGGTCTGCGGCTGGCACTGCTGTTGCTGCTGGTGCTAGGGAC ACCCAAGTCAGGGGTACAGGGGCAGGAAAGGCTGGACTTCCCTGAGTACGATGGTGTGA CCGTGTGATCAATGTCCATGCCAAGAATAACAAGATGTGGTCAAGAGTATGAAGGTGCT GGCC
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_001231
<b>Insert Size:</b>	2450 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_001231.2</a> , <a href="#">NP_001222.2</a>
<b>RefSeq Size:</b>	1884 bp
<b>RefSeq ORF:</b>	1173 bp
<b>Locus ID:</b>	844
<b>UniProt ID:</b>	<a href="#">P31415</a>
<b>Cytogenetics:</b>	1q23.2
<b>Domains:</b>	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]