

Product datasheet for SC327824

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-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC327824 representing NM_001231. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGAGTGTACAGACAGGATGGGGCCAGAGCTGTGCCGGTCTGCGGCTGGCACTGCTGTTGCTGCTG
GTGCTAGGGACACCCAAGTCAGGGGTACAGGGCAGGAAGGGCTGGACTCCCTGAGTACGATGGTGTG
GACCGTGTGATCAATGTCAATGCAAAGAACAAGAATGTGTTCAAGAAGTATGAGGTGCTGGCACTC
CTCTACCATGAACCCCGAGGATGACAAGGCCTCACAAGACAATTTGAGATGGAGGAGCTGATCCTG
GAGTTAGCAGCCCAAGTCTAGAAGACAAGGGTGTGGCTTCGGGCTGGTAGACTCTGAGAAGGATGCA
GCTGTGGCCAAGAACTAGGCCTAACTGAAGTGGACAGCATGTATGTATTCAAGGGAGATGAAGTCATT
GAGTACGATGGCGAGTTTCTGCTGACACCATCGTGGAGTTTCTGCTTGATGTCCTAGAGGACCCCTGTG
GAATTGATTGAAGGTGAACGAGAGCTGCAGGCGTTTGAGAATATTGAGGATGAGATCAAACCTCATTGGC
TACTTCAAGAGCAAAGACTCAGAGCATTACAAAGCCTTCGAGGATGCAGCTGAGGAGTTTCATCCCTAC
ATCCCCCTTCTCGCCACCTTCGACAGCAAGGTGGCAAAGAAGCTGACCCTGAAGCTGAATGAGATTGAT
TTCTACGAGGCCCTTCATGGAAGAGCCTGTGACCATCCCAGACAAGCCCAATAGCGAAGAGGAGATTGTC
AACTTCGTGGAGGAGCACAGGAGATCAACCCTGAGGAACTGAAGCCGGAGAGTATGTATGAGACCTGG
GAGGATGATATGGATGGAATCCACATTGTGGCCTTCGCAGAGGAAGCTGATCCTGATGGTTTCGAGTTC
TTAGAGACTCTCAAGGCTGTGGCCCAAGATAAACAAGTAAAACCCAGATCTTAGCATCATCTGGATTGAC
CCTGATGACTTCCCCTGCTGGTCCCATACTGGGAGAAGACGTTTGACATCGACTTGTACGCCCCACAA
ATAGGAGTCGTCAATGTTACTGATGCGGATAGCGTATGGATGGAATGGACGATGAGGAGACCTGCCT
TCTGCTGAGGAGCTGGAGGACTGGCTGGAGGATGTCTGGAGGGCGAGATCAACACAGAGGACGATGAC
GATGATGATGACTAG
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: Sgfl-Mlul



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ACCN:	NM_001231
Insert Size:	1191 bp
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:	<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_001231.4</u>
RefSeq Size:	1993 bp
RefSeq ORF:	1191 bp
Locus ID:	844
UniProt ID:	<u>P31415</u>
Cytogenetics:	1q23.2
Domains:	Calsequestrin
MW:	45.2 kDa
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]