

Product datasheet for SC119365

CASQ2 (NM_001232) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CASQ2 (NM_001232) Human Untagged Clone
Tag:	Tag Free
Symbol:	CASQ2
Synonyms:	PDIB2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC119365 sequence for NM_001232 edited (data generated by NextGen Sequencing)

```

ATGAAGAGAACTCACTTGTTTATTGTGGGATTTATTTCTGTCCTCTTGACGGCAGAA
GAGGGGCTTAATTTCCCCACATATGATGGGAAGGACCGAGTGGTAAGTCTTTCCGAGAAG
AACTTCAAGCAGGTTTTAAAGAAATATGACTTGCTTTGCCTCTACTACCATGAGCCGGTG
TCTTCAGATAAGGTCACGCAAAAACAGTCCAAGTAAAGAAATCGTGCTTGAGCTTGAG
GCCAGGTCCCTGAACATAAAGCTATAGGCTTTGTGATGGTGGATGCCAAGAAAGAACCC
AAGCTTGCCAAGAACTGGGTTTTGATGAAGAAGGAAGCCTGTATATTCTAAGGGTGAT
CGCACAATAGAGTTTGTGGCGAGTTTGCAGCTGATGTCTTGGTGGAGTTCCTCTGGAT
CTAATTGAAGACCCAGTGGAGATCATCAGCAGCAAAGTCAAGCCTTCGAACGC
ATTGAAGACTACATCAAACCTATTGGCTTTTTCAAGAGTGAGGACTCAGAATACTACAAG
GCTTTTGAAGAAGCAGCTGAACACTTCCAGCCTTACATCAAATCTTTGCCACCTTTGAC
AAAGGGGTTGCAAAAGAAATTATCTTTGAAGATGAATGAGGTTGACTTCTATGAGCCATTT
ATGGATGAGCCCATTTGCCATCCCAACAAACCTTACACAGAAGAGGAGCTGGTGGAGTTT
GTGAAGGAACACCAAGACCCACTCTACGTGCGCTGCGCCAGAAAGAAATGTTTGAACA
TGGGAAGATGATTTGAATGGGATCCACATTGTGGCCTTTGAGAGAAAGAGTATCCAGAT
GGCTACGAATTCCTGGAGATCCTGAAACAGGTTGCCCGGACAATACTGACAACCCCGAT
CTGAGCATCCTGTGGATCGACCCGACGACTTTCTCTGCTCGTTGCCTACTGGGAGAAG
ACTTTCAAGATTGACCTATTCAGGCCACAGATTGGGGTGGTGAATGTCACAGATGCTGAC
AGTGTCTGGATGGAGATTCCAGATGATGACGATCTTCCAAGTCTGAGGAGCTGGAGGAC
TGGATTGAGGATGTGCTTTCTGGAAGATAAAACACTGAAGATGATGATGAAGATGATGAT
GATGATGATAATTCTGATGAAGAGGATAATGATGACAGTATGACGATGATGATGAATAG

```

Clone variation with respect to NM_001232.3



[View online »](#)

5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_001232 unedited ATACGACTCACTATAGGGCGGCCGCAATTCGGCACGAGGGTGAAGAGTCACTTTTCAGC CCCAGGAAGGGCAAAGAAGAGAGAAAAATCAGCCTGTCTGCTCTCTCTCTTGGCTCAACAAG GCCTCTAACAGTCTTCTGTCCTCTATTCTGCACACGGCATATTTGGGAACGAGAAACAAA AGTTTTCCCAAATGAAGAGAAGTCACTTGTATTGTGGGGATTATTTTCTGTCCTCTT GCAGGGCAGAAGAGGGGCTTAATTTCCCCACATATGATGGGAAGGACCGAGTGGTAAGTC TTTCCGAGAAGAAGTCAAGCAGGTTTTAAAGAAATATGACTTGTCTTGCCTCTACTACC ATGAGCCGGTGTCTTACATAAGGTCACGCAAAAACAGTTCCAAGTAAAGAAATCGTGC TTGAGCTTGTGGCCAGTCTTGAACATAAAGCTATAGCTTTGTGATGGTGGATGCCA AGAAAGAAGCCAAGCTTGCCAAGAACTGGGTTTTGATGAAGAAGGAAGCCTGTATATTC TTAAGGGTGATCGACAATAGAGTTTGTGGCGAGTTTGCAGCTGATGTCTTGGNTGGAG TTCCTTCTGGATCTAATTGAAGACCCAGTGGGAGATCATCAGCAGCAAAGTGGAAAGTC CAAGCCTTCGAACGCATTGAAGACTACATCAAAGTCACTTGGGCTTTTTCAAGAAGGAGGA CTCAGAATACTTACAAGCTTTTGAAGAAGCTGACACTTCCAGCCTTACTCAATTCTTT GCCCCTTTGACCAAAGGGGTGCAAGAAATATCTTGTAGATGAAGAAGGTTGACTTCTATG ACCTTTTGGATGAACCTTGGCATCCAACAAGTAAAGAGAGATGGGGGTGTTTTGGA GGAACCAAGACCACTTTATCGCTGGCAAAAAGGTGAAGTGGAAAAA</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_001232 unedited CGCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTCAAAAATATGAGTTT AATGACAGAATTAGTTAGCTAGTATTCCACAAAAAGTATTGCTCTATTTTCAAAAATTT GCACAGTGTCTTACACATGTGCTAAAAGATTGAGAAAAATAAATTAGAAAATTATACTGCA CACTTAACACTAAATCTACCAAGCACAATGTAAGTCTTTAGACAGCTCAGAAGGCACCTTTG GGATTTTTTTTTTTTTTTCAGTGCCTCAGGGCATCAGTATGAACTCCAATTATTGTTGCCCT GGCCAATTGTGGGAGTACTGATAACTGGAGAGTTAATTGACTGTGGATAAAGCAATCTT TAATCTAAATGGGAAGGCTCACTAGCAGCTACAGAGAAGGGGATTTCAGATCCCAGCTTA GGCTAGGAAGCCAGCTGACCCAATCAGAGACATGAACCCATCAGAAAAATGTAAGTTT TCATCTTTCTAGTTTTCCCCACCCTCCACTCCTGCTGATGAATATGTGAGACTTGCCAA CTAGAGGGAAGTTAGAGAGCAAATCAACCTCCCATCCCAGTTTCTTAATATACTAGAAA TGATGGTGACACCTGTACACATTTCAAGCCCTCCATAGCCATCCAAAGGCTTGAATAT CCAAGTTCATAGTGATATGAATGACCATCACTTGAATAAGTTTAAACAAAGCCATGAGAA TATGATTTATAAGTTTGCTTCCAAGGCTGAGCTTCTTAAGAAGGATCATCTGGNCTGG AGGAGGGATCCNNACTGATNGTCGAGGTATGGAGGGAGCTAAATCATAATCATGGGGCTN CCTGGGCTCTGATAAAAAGTCACTCTATGCCTGTGAGTAAAAGCTGCAATTNTGTACTGG CATATCAAGACAGNAACTGGGTAGGGGATGTTCCCTANATGGCTGTCAGC</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_001232
Insert Size:	2900 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).
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_001232.1](#), [NP_001223.1](#)

RefSeq Size: 2528 bp

RefSeq ORF: 1200 bp

Locus ID: 845

UniProt ID: [O14958](#)

Cytogenetics: 1p13.1

Domains: Calsequestrin

Protein Families: Druggable Genome

Gene Summary: The protein encoded by this gene specifies the cardiac muscle family member of the calsequestrin family. Calsequestrin is localized to the sarcoplasmic reticulum in cardiac and slow skeletal muscle cells. The protein is a calcium binding protein that stores calcium for muscle function. Mutations in this gene cause stress-induced polymorphic ventricular tachycardia, also referred to as catecholaminergic polymorphic ventricular tachycardia 2 (CPVT2), a disease characterized by bidirectional ventricular tachycardia that may lead to cardiac arrest. [provided by RefSeq, Jul 2008]