

Product datasheet for **SC115829**

CALM1 (NM_006888) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CALM1 (NM_006888) Human Untagged Clone
Tag:	Tag Free
Symbol:	CALM1
Synonyms:	CALML2; caM; CAM2; CAM3; CAMB; CAMC; CAMI; CAMIII; CPVT4; DD132; LQT14; PHKD
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC115829 sequence for NM_006888 edited (data generated by NextGen Sequencing)

```
ATGGCTGATCAGCTGACCGAAGAACAGATTGCTGAATTC AAGGAAGCCTTCTCCCTATTT  
GATAAAGATGGCGATGGCACCATCACAAACAAGGAAC TTGGAAGTGCATGAGGTCAC TG  
GGTCAGAACCCAACAGAAGCTGAATTGCAGGATATGATCAATGAAGTGGATGCTGATGGT  
AATGGCACCATTGACTTCCCCGAATTTTTGACTATGATGGCTAGAAAAATGAAAGATACA  
GATAGTGAAGAAGAAATCCGTGAGGCATTCCGAGTCTTTGACAAGGATGGCAATGGTTAT  
ATCAGTGCAGCAGAACTACGTCACGTCATGACAAACTTAGGAGAAAACTAACAGATGAA  
GAAGTAGATGAAATGATCAGAGAAGCAGATATTGATGGAGACGGACAAGTCAACTATGAA  
GAATTCGTACAGATGATGACTGCAAAATGA
```

Clone variation with respect to NM_006888.4



[View online »](#)

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_006888 unedited
 TGTATACGACTCATATAGGGCGGCCGGAATTCGCACGAGGTGGACGCCGTGCCGTTACT
 CGTAGTCAGGCGGCGGCCGAGGCCGCGGCCGCATAGCGCACAGCGCGCCTTAGCAGC
 AGCAGCAGCAGCAGCAGCATCGGAGGTACCCCCGCGTCGCAGCCCCCGCGCTGGTGCA
 CCACCTCGCTCCCTCTGCTCTTCTCCCTTCGCTCGCACCATGGCTGATCAGCTGACCG
 AAGAACAGATTGCTGAATCAAGGAAGCCTTCTCCCTATTTGATAAAGATGGCGATGGCA
 CCATCACAACAAAGGAACCTTGGAACTGTCATGAGGTCACCTGGGTCAGAACCCAACAGAAG
 CTGAATTGCAGGATATGATCAATGAAGTGGATGCTGATGGTAATGGCACCATTGACTTCC
 CCGAATTTTTGACTATGATGGCTAGAAAAATGAAAGATACAGATAGTGAAGAAGAATCC
 GTGAGGCATTCCGAGTCTTTGACAAGGATGGCAATGGTTATATCAGTGCAGCAGAACTAC
 GTCACGTCATGACAACTTAGGAGAAAACTAACAGATGAAGAAGTAGATGAAATGATCA
 GAGAAGCAGATATTGATGGAGACGGACAAGTCAACTATGAAGAATTCGTACAGATGATGA
 CTGCAAAATGAAGACCTACTTTCAACTCCTTTTTTCCCCCTCTAGAAGAATCAAATTGA
 ATCTTTTACTTTACCTCTTGCAAAAAAAGAAAAAGAANAAGTTTCAATTTATTCATTCTGTT
 TCTATATAGCAAAGTGTCAAGTACCTTCTGTCCACAACACAATCTGCAGNATGGG
 TGGNGGGCCCTGTCCCTAAGATCAGCTCACATCAGTTTACATATAATACTGGGACTACC
 TTATGAAAAGGATC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_006888 unedited
 GCTATGGACCCGCGGCCCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTGGTTAATG
 GTCTTTTTATTGAAAAAAGACTAGCATTACAACCTGGAATGGACGTAAA
 CTGTAATTTCTTTGAACAGCAATGTTGATGGTTGTGCTGAAGTCCACAGCCACAGCCTAC
 TCTGCCGCTCCAAGTCATGGTTCAAAAGTTTTAAAAACAGAGAGTCCAAGATGCTCC
 CTGGTAAATGTTTCTTATTAATAATTTGTGTGAACAGTACAGCCTGACACCTGTTTCA
 CTCTAGAACAATGCAGACAACGCTAAACCAACATACACGGGCATGCCACCAGGGTGTGTC
 ATCGTCACCATGGGTCCGAGCACACGAAGTACAAGAGGACCATCTACCAGTGGGGCCAC
 GTCTCAACGGTTTATCCTTACCATTCTTCTGCACGTCATCCTGAGGTAACCAATTTT
 AAATGTGTTTGTGTTTTCAGTAAACAGCTATGACAATTTATACTAAACAAATGAACTAGA
 ACCCATTTGAATAGGTTTTGAATTTGTTTTTTCATTTTTTCAATTTTAAACAAGGCCTG
 ACTGTGCTCAATCGTCAAGCTGCATGCATGAAAACTGGCCAGCCCAACAGTGTATTAA
 TCATTAGCAAATGGAACCTTAAGGAGTCCTTATCATTAAAGTAGTACAAGTATTTATATT
 GTAAAACGTAGTGTAGCTTATCTTTANGGGACAGGACCAACCAATACATGCAGAT
 TTTGTGTGTGAGCAGAAAGTACTTTTACATTGAGTNTGCTTATAGAAACAGATGAT
 AAATGACTTTTTTCTTTTTCTTTTTGTCAGAGGTAGTAAAGATCATTGATTCTCTAAGC
 GAAAAAGAGTGAAGAGTCTATTTGCAGCATATCTGACAACTCTANTGACTG

Restriction Sites:

NotI-NotI

ACCN:

NM_006888

Insert Size:

1500 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:	<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:	NM_006888.2 , NP_008819.1
RefSeq Size:	3718 bp
RefSeq ORF:	450 bp
Locus ID:	801
UniProt ID:	P62158
Cytogenetics:	14q32.11
Domains:	EFh
Protein Families:	Druggable Genome
Protein Pathways:	Alzheimer's disease, Calcium signaling pathway, Glioma, GnRH signaling pathway, Insulin signaling pathway, Long-term potentiation, Melanogenesis, Neurotrophin signaling pathway, Olfactory transduction, Oocyte meiosis, Phosphatidylinositol signaling system, Vascular smooth muscle contraction
Gene Summary:	This gene encodes one of three calmodulin proteins which are members of the EF-hand calcium-binding protein family. Calcium-induced activation of calmodulin regulates and modulates the function of cardiac ion channels. Two pseudogenes have been identified on chromosome 7 and X. Multiple transcript variants encoding different isoforms have been found for this gene. A missense mutation in the CALM1 gene has been associated with ventricular tachycardia. [provided by RefSeq, May 2020]