

## Product datasheet for **SC116896**

### **CALM3 (NM\_005184) Human Untagged Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CALM3 (NM_005184) Human Untagged Clone
Tag:	Tag Free
Symbol:	CALM3
Synonyms:	CALM; CaM; CAM1; CAM2; CAMB; CaMIII; CPVT6; HEL-S-72; LQT16; PHKD; PHKD3
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC116896 sequence for NM_005184 edited (data generated by NextGen Sequencing) ATGGCTGACCAGCTGACTGAGGAGCAGATTGCAGAGTTCAAGGAGCCTTCTCCCTCTTT GACAAGGATGGAGATGGCACTATCACCACCAAGGAGTTGGGGACAGTGATGAGATCCCTG GGACAGAACCTCACTGAAGCAGAGCTGCAGGATATGATCAATGAGGTGGATGCAGATGGG AACGGGACCATTGACTTCCCGGAGTTCCTGACCATGATGGCCAGAAAGATGAAGGACACA GACAGTGAGGAGGAGATCCGAGAGGCGTTCGTGTCTTTGACAAGGATGGGAATGGCTAC ATCAGCGCCGCAGAGCTGCGTCACGTAATGACGAACCTGGGGGAGAAGCTGACCGATGAG GAGGTGGATGAGATGATCAGGGAGGCTGACATCGATGGAGATGGCCAGGTCAATTATGAA GAGTTTGTACAGATGATGACTGCAAAGTGA  Clone variation with respect to NM_005184.2 131 c=>t



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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_005184 unedited NGTCAAAAATTGTATACGACTCACTATAGGCGGCCGGAATTCGCACGAGGGCGCGCTGC GGGCAGTGAAGTGTGGAGGCGGGACGCGCGGGAGCTGGAAGTCTGCAGCTGCTGCCG CCGCCGGAGAACCTTGATCCCCGTGCTCCGGACACCCCGGGCCTCGCCATGGCTGACCA GCTGACTGAGGAGCAGATTGCAGAGTTCAAGGAGGCCCTTCCCTCTTTGACAAGGATGG AGATGGCACTATACCACCAAGGAGTTGGGGACAGTGATGAGATCCCTGGGACAGAACCT CACTGAAGCAGAGCTGCAGGATATGATCAATGAGGTGGATGCAGATGGGAACGGGACCAT TGACTTCCCGGAGTTCTGACCATGATGGCCAGAAAGATGAAGGACACAGACAGTGAGGA GGAGATCCGAGAGGCGTTCCGTGTCTTTGACAAGGATGGGAATGGCTACATCAGCGCCGC AGAGCTGCGTCACGTAATGACGAACCTGGGGGAGAAGCTGACCGATGAGGAGGTGGATGA GATGATCAGGGAGGCTGACATCGATGGAGATGGCCAGGTCAATTATGAAGAGTTTGTGAG ATGATGACTGCAAAGTGAAGGCCCGGGCAGCTGGCGATGCCCGTTCTCTTGATCTCT CTCTTCTCGCGCGCACTCTCTTAACTTNCCTGCGTACCCCGTTCTAGCAAACA CCAATTGATTGACTGACAGTGGCAACTCACATNCCACTGGGCTGCTGTTCTGAAAAC ATCTGATTGGCTTCTGGAGTTTGGCTGGGTGGGACTGCTCATTTGCCACTTGCGAAT GGACTGNCCCGCTTCTGAAGCCTCTCAGCTTGTCTGTAATACCTGGTGTACATNCCA GGCCGNTCCCTCTACGATCACCCACGNCCTGAGGGCCGTCCTAGAAGGAGNNGGGGAGAGG GCCTTNTGAAAGGGGCGGGTTTCTTTTTTTCTTTTCTCTATGCCCTAA
<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_005184 unedited TTTTTTTTTTTTTTTTTCAGGTAGTCACTGTATTTTATTGGAAAAACATTGATATATATT TTTCTTACAGCTTGAAGTGAACACAATATTGCCCGTTTAAAAAAAACAAAACAAAAC ATTCCGAAAATGTCCACAGCCTCAGCCTACCTGCCCTTACCCTCAGCTCTTGGCTGGGT CTCCACTATGCCCATCCCTCCTCCCTCAAAGGCTGGGTGCCAGAGGGTGGATGAAAA GAGATTCTCAAAGCTGGGCAGGTCCCAGAAAAGCCACTTGATCGACCTGGGCAGTGAGG GGAAGCAGGGGTGGGGGTGN
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_005184
<b>Insert Size:</b>	1770 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_005184.2</a> , <a href="#">NP_005175.2</a>
<b>RefSeq Size:</b>	2277 bp
<b>RefSeq ORF:</b>	450 bp

<b>Locus ID:</b>	808
<b>UniProt ID:</b>	<a href="#">P62158</a>
<b>Cytogenetics:</b>	19q13.32
<b>Domains:</b>	EFh
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	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
<b>Gene Summary:</b>	<p>This gene encodes a member of a family of proteins that binds calcium and functions as a enzymatic co-factor. Activity of this protein is important in the regulation of the cell cycle and cytokinesis. Multiple alternatively spliced transcript variants have been observed at this gene. [provided by RefSeq, Aug 2016]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longer isoform (1). Variants 1 and 3 encode the same protein (isoform 1).</p>