

Product datasheet for SC209073

Calmodulin (CALM2) (NM_001743) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	Calmodulin (CALM2) (NM_001743) Human 3' UTR Clone
Symbol:	Calmodulin
Synonyms:	CALM; CALML2; caM; CAM1; CAM3; CAMC; CAMII; CAMIII; LQT15; PHKD; PHKD2
Mammalian Cell Selection:	Neomycin
Vector:	pMirTarget (PS100062)
ACCN:	NM_001743
Insert Size:	722 bp
Insert Sequence:	>SC209073 3'UTR clone of NM_001743 The sequence shown below is from the reference sequence of NM_001743. The complete sequence of this clone may contain minor differences, such as SNPs. Blue =Stop Codon Red =Cloning site

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
GAGTTTGTACAAATGATGACAGCAAAGTGAAGACCTTGTACAGAATGTGTTAAATTTCTTGACAAAAT
TGTTTATTTGCCTTTTCTTTGTTGTAAGTTTCTGTAAGGTTTCTCCCTACTGTCAAAAAATATG
CATGTATAGTAATTAGGACTTCATTCTCCATGTTTTCTCCCTTATCTTACTGTCATTGCCTAAAAC
CTTATTTAGAAAATTGATCAAGTAACATGTTGCATGTGGCTTACTCTGGATATATCTAAGCCCTTCTG
CACATCTAAACTTAGATGGAGTTGGTCAAATGAGGGAACATCTGGGTTATGCCTTTTTTAAAGTAGTTT
TCTTTAGGAAGTGTGAGCATGTTGTTGTTGAAAGTGTGGAGTTGTAAGTCTGCGTGGACTATGGACAGTC
AACAAATGTAAGTAAAAGTTGCACTATTGCAAAACGGGTGATTATCCAGGTAAGTCTGACACTATTTT
TTTGTACTGCTGGTCTGTACCAGAAACATTTCTTTTATTGTTACTTGCCTTTTAAACTTTGTTTAGC
CACTTAAATCTGCTTATGGCACAATTTGCCTCAAATCCATTCCAAGTTGTATATTTGTTTCCAATA
AAAAAATTACAATTTACCAATGGTTGCTCTGCATCTGAGTCATTTAACTGTTGAAGTCTAATAATTTT
GAAAAATAAATATGGCATTGGTTTCTGCTTGG
ACGCGTAAGCGGCCGCGCATCTAGATTCGAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
CGAGATTTTCGATTCCACCGCCGCTTCTATGAAAGG

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Restriction Sites:	Sgfl-MluI
OTI Disclaimer:	Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences , e.g., single nucleotide polymorphisms (SNPs).



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Components:	The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.
RefSeq:	<u>NM_001743.6</u>
Summary:	This gene is a member of the calmodulin gene family. There are three distinct calmodulin genes dispersed throughout the genome that encode the identical protein, but differ at the nucleotide level. Calmodulin is a calcium binding protein that plays a role in signaling pathways, cell cycle progression and proliferation. Several infants with severe forms of long-QT syndrome (LQTS) who displayed life-threatening ventricular arrhythmias together with delayed neurodevelopment and epilepsy were found to have mutations in either this gene or another member of the calmodulin gene family (PMID:23388215). Mutations in this gene have also been identified in patients with less severe forms of LQTS (PMID:24917665), while mutations in another calmodulin gene family member have been associated with catecholaminergic polymorphic ventricular tachycardia (CPVT)(PMID:23040497), a rare disorder thought to be the cause of a significant fraction of sudden cardiac deaths in young individuals. Pseudogenes of this gene are found on chromosomes 10, 13, and 17. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Mar 2015]
Locus ID:	805
MW:	27.8