

Product datasheet for **RG219086**

CALM1 (NM_006888) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: CALM1 (NM_006888) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: CALM1
Synonyms: CALML2; caM; CAM2; CAM3; CAMB; CAMC; CAMI; CAMIII; CPVT4; DD132; LQT14; PHKD
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG219086 representing NM_006888
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTGATCAGCTGACCGAAGAACAGATTGCTGAATCAAGGAAGCCTTCTCCCTATTTGATAAAGATG
GCGATGGCACCATCACAAAGGAAGTGGAACTGTCATGAGGTCAGGGTCAGAACCCAAACAGAAGC
TGAATTGCAGGATATGATCAATGAAGTGGATGCTGATGGTAATGGCACCATTGACTTCCCGAATTTTTG
ACTATGATGGCTAGAAAAATGAAAGATACAGATAGTGAAGAAGAAATCCGTGAGGCATTCCGAGTCTTTG
ACAAGGATGGCAATGGTTATATCAGTGCAGCAGAACTACGTACGTCATGACAACTTAGGAGAAAACT
AACAGATGAAGAAGTAGATGAAATGATCAGAGAAGCAGATATTGATGGAGACGGACAAGTCAACTATGAA
GAATTCGTACAGATGATGACTGCAAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG219086 representing NM_006888
Red=Cloning site Green=Tags(s)
MADQLTEEQIAEFKEAFSLFDKGDGTITTKELGTVMRSLGQNPTEAELQDMINEVDADNGTIDFPEFL
TMMARKMKDTDSEEEIREFRVFDKDGNGYISAAELRHVMTNLGEKLTDEEVDEMIREADIDGDGQVNYE
EFVQMMTAK

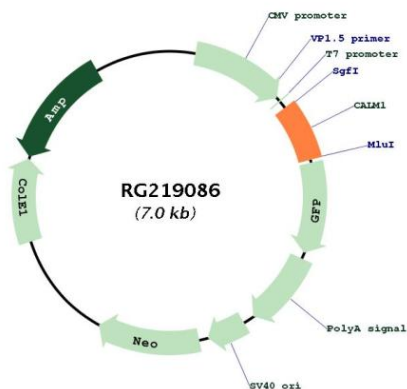
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



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_006888.6
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]

Product images:



Circular map for RG219086