

Product datasheet for MR201051

Calm1 (NM 009790) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Calm1 (NM_009790) Mouse Tagged ORF Clone

Tag: Myc-DDK Symbol: Calm1

Synonyms: Al256814; Al327027; Al461935; AL024000; Calm; CaM; Cam1

Mammalian Cell

Selection:

Neomycin

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)ORF Nucleotide>MR201051 ORF sequence

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGGCTGATCAGCTGAAGAGACAGATTGCTGAATTCAAGGAAGCTTTCTCCCTATTCGATAAAGATG
GTGACGGCACCATCACAACCAAGGAACTGGGGACCGTCATGCGGTCACTGGGTCAGAACCCAACAGAAGC
CGAGCTGCAGGATATGATCAACGAAGTGGATGCTGATGGCAATGGCACCATTGACTTCCCAGAGTTCTTG
ACTATGATGGCTAGAAAAAATGAAAGACACAGATAGCGAAGAAGAGATCCGCGAGGCCTTCCGAGTGTTTG
ACAAGGATGGGAATGGTTACATCAGTGCGGCAGAACTGCCCCACGTCATGACAAACTTAGGAGAAAAGCT
AACAGATGAAGAAGAAGAATGATCAGAGAGAAGCAGATATTGATGGCGACGGACAAGTCAACTATGAA

GAATTCGTACAGATGATGACTGCAAAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR201051 protein sequence

Red=Cloning site Green=Tags(s)

MADQLTEEQIAEFKEAFSLFDKDGDGTITTKELGTVMRSLGQNPTEAELQDMINEVDADGNGTIDFPEFL TMMARKMKDTDSEEEIREAFRVFDKDGNGYISAAELRHVMTNLGEKLTDEEVDEMIREADIDGDGQVNYE

EFVQMMTAK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-Mlul



OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

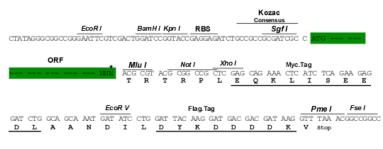
CN: techsupport@origene.cn

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Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

ACCN: NM_009790

ORF Size: 450 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of

reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing

variants is recommended prior to use. More info

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression

varies depending on the nature of the gene.

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: <u>NM 009790.5</u>

RefSeq Size: 4001 bp
RefSeq ORF: 450 bp
Locus ID: 12313
UniProt ID: P0DP26



Cytogenetics:

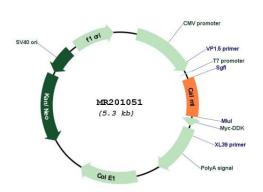
MW: 16.8 kDa

12 E

Gene Summary:

This gene encodes a member of the EF-hand calcium-binding protein family. The encoded protein acts as a calcium sensor and is involved in relaying signals to calcium-sensitive proteins, enzymes and ion channels. The protein-calcium complex binds target proteins to regulate several cellular processes, including smooth muscle contraction, inflammation, apoptosis and the immune response. Mutations in the human gene are associated with catecholaminergic polymorphic ventricular tachycardia and long QT syndrome 14. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Sep 2015]

Product images:



Circular map for MR201051