

Product datasheet for MR201049

Calml3 (NM_027416) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Calml3 (NM_027416) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Calml3
Synonyms: 2310068O22Rik; AI326174
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR201049 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCCGACCAGCTGACTGAGGAGCAAATCGCCGAGTTCAAAGAGGCTTTCTCTGTTTGACAAGGATG
GGGATGGCAGTATCACCACCAAGAAGTGGGCACTGTATGCGGTCCTGGGTGAGAACCCACAGAGGC
TGAGCTTCAAGGCATGGTGAATGAAATTGACAAAGATGAAACGGCACCGTGGACTTCCCAAGTTCCTG
ACAATGATGTCCAGGAAGATGAAAGACACTGACAGCGAGGAGGAGATCCGGGAGGCTTCCGAGTGTTCG
ACAAGGATGGCAATGGCTTCGTCACTGACGCGAGCTGAGGCACGTGATGACCAAGCTGGGGAGAAGCT
GAGCGATGAGGAGGTGGACGAAATGATACAGCGCGCAGATACAGATGGTATGGCAAGTGAAGTATGAG
GAGTTTGTCCACATGCTGGTGTCCAAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR201049 protein sequence
Red=Cloning site Green=Tags(s)
MADQLTEEQIAEFKEAFSLFDKDGDSITTELGTVMRSLGQNPTEAELQGMVNEIDKDGNGTVDFPKFL
TMSRKMKDTDSEEEIREAFRVFDKDGNGFVSAELRHVMTKLGEKLSDEEVDEMIQAADTDGQGQVNYE
EFVHMLVSK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI



Cloning Scheme:


ACCN: NM_027416

ORF Size: 447 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_027416.1](#), [NM_027416.2](#), [NM_027416.3](#), [NP_081692.1](#)

RefSeq Size: 1426 bp

RefSeq ORF: 450 bp

Locus ID: 70405

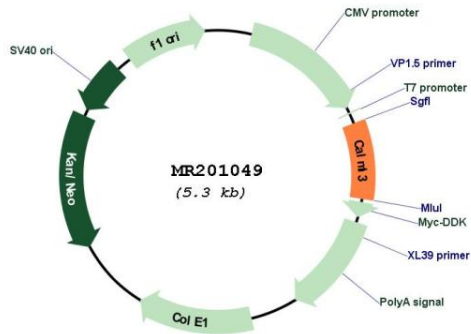
UniProt ID: Q9D6P8

Cytogenetics: 13 A1

MW: 16.7 kDa

Gene Summary: May function as a specific light chain of unconventional myosin-10 (MYO10), also enhances MYO10 translation, possibly by acting as a chaperone for the emerging MYO10 heavy chain protein. May compete with calmodulin by binding, with different affinities, to cellular substrates (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR201049