

Product datasheet for **MG201049**

Calml3 (NM_027416) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Calml3 (NM_027416) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Calml3
Synonyms: 2310068O22Rik; AI326174
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG201049 representing NM_027416
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCGACCAGCTGACTGAGGAGCAAATCGCCGAGTTCAAAGAGGCTTCTCTCTGTTTGACAAGGATG
GGGATGGCAGTATCACCACCAAGAAGTGGCACTGTCTGCGGTCCTGGGTGAGAACCCACAGAGGC
TGAGCTTCAAGGCATGGTGAATGAAATTGACAAAGATGGAACCGCACCGTGGACTTCCCAAGTTCCTG
ACAATGATGTCCAGGAAGATGAAAGACACTGACAGCGAGGAGGAGATCCGGGAGGCTTCCGAGTGTTCG
ACAAGGATGGCAATGGCTTCGTCAGTGCAGCCGAGCTGAGGCACGTGATGACCAAGCTGGGGAGAAGCT
GAGCGATGAGGAGGTGGACGAAATGATACAGGCCGAGATACAGATGGTATGGCAAGTGAAGTATGAG
GAGTTTGTCCACATGCTGGTGTCCAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG201049 representing NM_027416
Red=Cloning site Green=Tags(s)

MADQLTEEQIAEFKEAFSLFDKGDGSIITQELGTVMRSLGQNPTEAELQGMVNEIDKDGNGTVDFPKFL
TMMSRKMKDTDSEEEIREAFRVFDKDGNGFVSAELRHVMTKLGEKLSDEEVDEMIQAADTDGQVNYE
EFVHMLVSK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



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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](#), [NP_081692.1](#)

RefSeq Size: 1422 bp

RefSeq ORF: 450 bp

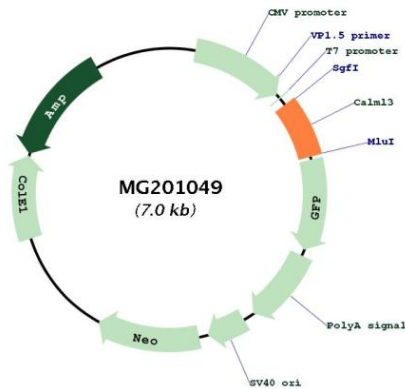
Locus ID: 70405

UniProt ID: [Q9D6P8](#)

Cytogenetics: 13 A1

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 MG201049