

Product datasheet for **RR208868**

Calml3 (NM_001012054) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Calml3 (NM_001012054) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Calml3
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RR208868 representing NM_001012054
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGATCGCC

ATGGCCAACCAGCTGACTGAGGAGCAAATCGCCGAGTTCAAGGAGGCTTCTCTCTGTTTGACAAGGATG
 GGGATGGCTGCATCACCACCAAGAAGTGGCACTGTCATGAGGTCCCTGGGTGAGAACCCACAGAGGC
 TGAGCTCCAAGACATGGTGAACGAAATCGACAAGGATGGAACCGCACCGTGGACTTCCCGAGTTCCTG
 ACCATGATGTCCAGGAAGATGAAAGACACCGACAGCGAGGAGGAGATCCGGGAGGCCTCCGGGTGTTTG
 ACAAGGACGGCAACGGCTTCGTCAGCGCAGCTGAGCTGAGGCACGTGATGACCAGGCTTGGGGAGAAGCT
 GAGCGACGAGGAGGTAGATGAAATGATACAGCGCGGATACAGACGGCGACGGGCAAGTGAACATGAG
 GAATTTGTTACATGCTAGTGTCCAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR208868 representing NM_001012054
Red=Cloning site Green=Tags(s)

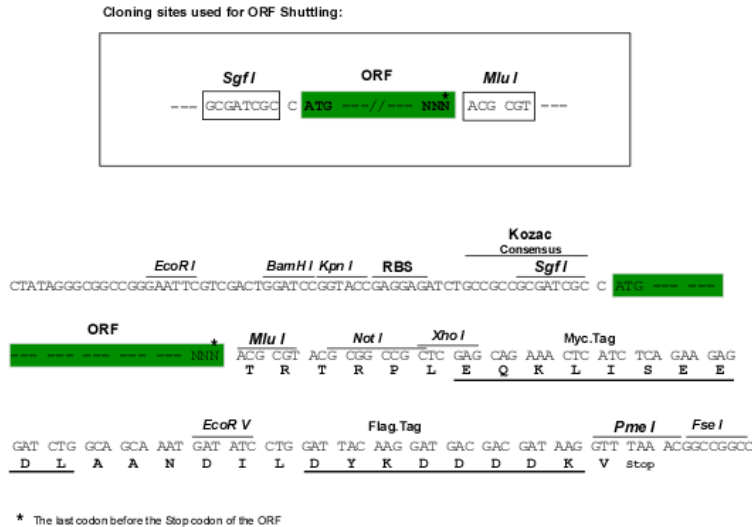
MANQLTEEQIAEFKEAFSLFDKGDGDCITTELGTVMRSLGQNPTEAELQDMVNEIDKDGNGTVDFPEFL
 TMMSRKMKDTDSEEEIREAFRVFDKDGNGFVSAELRHVMTRLGKLSDEEVDEMIQAADTDGDGQVNYE
 EFVHMLVSK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI



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Cloning Scheme:


ACCN: NM_001012054

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.

RefSeq: [NM_001012054.1](#), [NP_001012054.1](#)

RefSeq Size: 1405 bp

RefSeq ORF: 450 bp

Locus ID: 307100

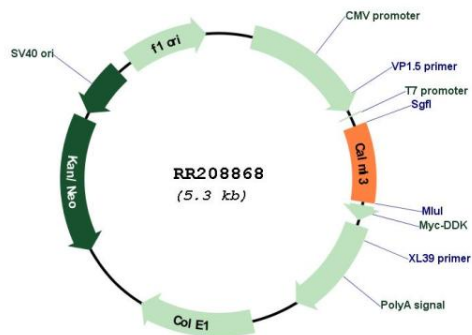
UniProt ID: [Q5U206](#)

Cytogenetics: 17q12.2

MW: 16.8 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 RR208868