

## Product datasheet for **MG226246**

### Cav3 (NM\_007617) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Cav3 (NM\_007617) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Cav3  
**Synonyms:** AI385751; Cav; Cav-3; M-ca; M-cav  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG226246 representing NM\_007617  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGATGACCGAAGAGCACACGGATCTGGAAGCTCGGATCATCAAGGACATTCAGTCAAGGAGATAGACT  
TGGTGAACCGCGACCCCAAGAACATCAATGAGGACATTGTGAAGGTAGATTTTGAAGACGTATTGCGGA  
GCCCGAGGGCACCTACAGCTTCGACGGTGTATGGAAGGTAGCTTCACCACGTTCCACGCTCCAAGTAC  
TGGTGCTACCGCCTGTTGTCTACACTGCTGGGTGTTCCACTGGCCCTGCTCTGGGGATTCTGTTGCGCT  
GTATCTCCTTCTGCCACATCTGGGCCGTGGTGCCTGCATTAAGAGCTACCTGATCGAGATCCAGTGCAT  
CAGCCACATCTACTCACTGTGTATCCGCACCTTCTGCAACCCGCTCTTCGCTGCGTTGGGCCAGGTCTGC  
AGCAACATTAAGGTGGTCTGCGAAGGAAGGC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG226246 representing NM\_007617  
Red=Cloning site Green=Tags(s)

MMTEEHTDLEARIKDIHCKEIDLVNRDPKNINEDIVKVFEDVIAEPEGTYSFDGVMKVSFTTFTVSKY  
WCYRLLSTLLGVPLALLWGFLFACISFCHIWAIVPCIKSYLIEIQCISHIYSLCIRTFCNPLFAALGQVC  
SNIKVVLRREG

**TRTRPLE** - GFP Tag - V

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja2727\\_e01.zip](https://cdn.origene.com/chromatograms/ja2727_e01.zip)

**Restriction Sites:** Sgfl-MluI



[View online »](#)

**Cloning Scheme:**


**ACCN:** NM\_007617

**ORF Size:** 453 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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.

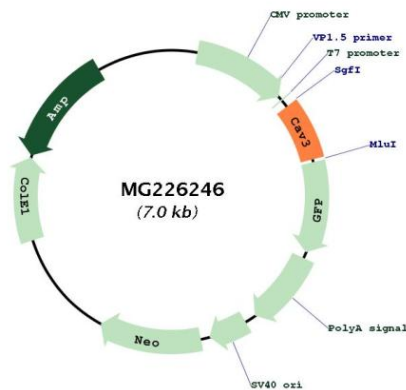
**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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\\_007617.3, NP\\_031643.1](#)  
**RefSeq Size:** 1172 bp  
**RefSeq ORF:** 456 bp  
**Locus ID:** 12391  
**UniProt ID:** [P51637](#)  
**Cytogenetics:** 6 52.26 cM

**Gene Summary:** This gene belongs to the caveolin family whose members encode the major protein components of caveolae, which are invaginations of plasma membrane. The encoded protein is muscle-specific and forms homooligomers in muscle cells. The protein binds and regulates phosphofructokinase M and neuronal nitric oxide synthase. It also associates with dystrophin in muscle cells. Mutations in this gene are associated with muscular dystrophy. [provided by RefSeq, Apr 2013]

### Product images:



Circular map for MG226246