

Product datasheet for **MC208219**

Cav3 (NM_007617) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cav3 (NM_007617) Mouse Untagged Clone
Tag: Tag Free
Symbol: Cav3
Synonyms: AI385751; Cav; Cav-3; M-ca; M-cav
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC208219 representing NM_007617
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGATGACCGAAGAGCACACGGATCTGGAAGCTCGGATCATCAAGGACATTCACTGCAAGGAGATAGACT
TGGTGAACCGCGACCCCAAGAACATCAATGAGGACATTGTGAAGGTAGATTTTGAAGACGTGATTGCGGA
GCCCGAGGGCACCTACAGCTTCGACGGTGTATGGAAGGTGAGCTTACCACGTTACCGTCTCCAAGTAC
TGGTGCTACCGCCTGTTGTCTACTGCTGGGTGTCCACTGGCCCTGCTCTGGGGATTCTGTTCGCCT
GTATCTCCTTCTGCCACATCTGGCCGTGGTGCCTGCATTAAGAGCTACCTGATCGAGATCCAGTGCAT
CAGCCACATCTACTACTGTGTATCCGCACCTTCTGCAACCCGCTCTTCGCTGCGTTGGGCCAGGTCTGC
AGCAACATTAAGGTGGTGTCTGCGAAGGGAAGGC**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_007617
Insert Size: 456 bp



[View online »](#)

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 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](#)

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]