

## Product datasheet for MR201276

### Cav2 (NM\_016900) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Cav2 (NM\_016900) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Cav2  
**Synonyms:** AI447843  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR201276 representing NM\_016900  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGGCTGGAGACCGAGAAGGCCGATGTGCAGCTCTTCATGGCCGATGACGCCTACAGCCACCACAGTG  
GCGTTGACTACGCAGATCCTGAGAAGTATGTTGACTCGAGTCACGACCGGGATCCTCACCAGCTCAACTC  
TCATCTCAAGCTAGGCTTCGAGGATCTGATTGCAGAGCCTGAGACTACACTCCTTTGACAAAGTGTGG  
ATCTGCAGCCATGCTCTCTTTGAAATCAGCAAATATGTGATGTACAAGTCTCTGACCGTATTCTGGCCA  
TCCCCTTGGCCTTCATTGCGGGTATCCTGTTTGTACCCTCAGCTGTCTGCACATCTGGATCCTGATGCC  
TTTTGTGAAGACCTGCCTAATGGTCTTGCTTCGGTGCAGACAATATGGAAGAGTGTGACAGACGTTGTC  
ATTGGCCATTGTGTACAAGTGTGGGCCGAGCTTCTCATCGGTACGATGCAACTGAGCCACGAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR201276 representing NM\_016900  
Red=Cloning site Green=Tags(s)

MGLETEKADVQLFMADDAYSHSGVDYADPEKYVDSSHDRDPHQLNSHLKLGFDLIAEPETTHSFDKVV  
ICSHALFEISKYVMYKFLTVFLAIPLAFIAGILFATLSCLHIWILMPFVKTCMLVLPVSVQTIWKSVDVV  
IGPLCTSVGRSFSSVSMQLSHD

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

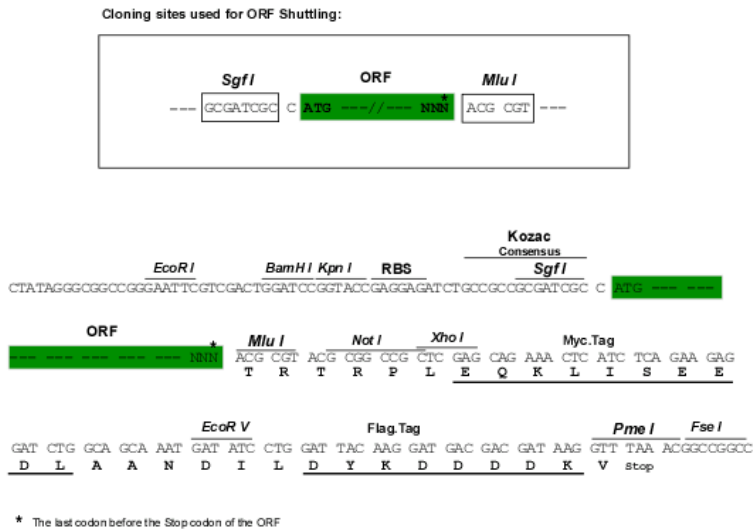
**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9025\\_g02.zip](https://cdn.origene.com/chromatograms/mm9025_g02.zip)



[View online »](#)

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM\_016900

ORF Size: 486 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\\_016900.4](#), [NP\\_058596.1](#)

RefSeq Size: 2748 bp

RefSeq ORF: 489 bp

Locus ID: 12390

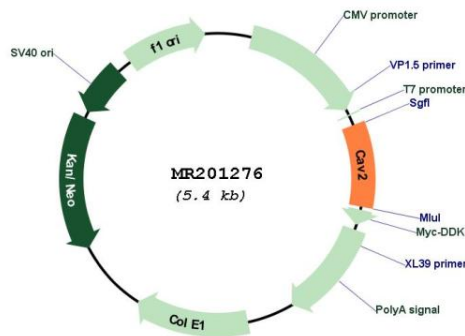
UniProt ID: [Q9WVC3](#)

Cytogenetics: 6 A2

MW: 18.7 kDa

**Gene Summary:** This gene belongs to the caveolin family whose members encode the major protein components of caveolae, which are invaginations of plasma membrane. This gene is located adjacent to caveolin-1 and the proteins coexpressed by the two genes localize together in caveolae, where they form hetero-oligomers. The encoded protein may be involved in diverse cellular functions including proliferation, differentiation, endocytosis and trafficking. Alternative splicing of this gene results in transcript variants encoding different isoforms. [provided by RefSeq, Apr 2013]

**Product images:**



Circular map for MR201276