

Product datasheet for **MC225696**

Cav2 (NM_001277756) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids

Product Name: Cav2 (NM_001277756) Mouse Untagged Clone

Tag: Tag Free

Symbol: Cav2

Synonyms: AI447843

Mammalian Cell Selection: Neomycin

Vector: pCMV6-Entry (PS100001)

E. coli Selection: Kanamycin (25 ug/mL)

Fully Sequenced ORF: >MC225696 representing NM_001277756
Red=Cloning site Blue=ORF Orange=Stop codon

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGCTGGAGACCGAGAAGGCCGATGTGCAGCTCTTCATGGCCGATGACGCCTACAGCCACCACAGTG
GCGTTGACTACGCAGATCCTGAGAAGTATGTTGACTCGAGTCACGACCGGGATCCTCACCAGCTCAACTC
TCATCTCAAGCTAGGCTTCGAGGATCTGATTGCAGAGCCTGAGACTACACACTCCTTTGACAAAGTGTGG
ATCTGCAGCCATGCTCTCTTTGAAATCAGCAAATATGTGATGTACAAGTTCCTGACCGTATTCTGGCCA
TCCCTTGGCCTTCATTGCGGGTATCCTGTTTGCTACCCTCAGCTGTCTGCACATCTGG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001277756

Insert Size: 342 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.



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| 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: | <ol style="list-style-type: none"> 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: | <u>NM_001277756.1, NP_001264685.1</u> |
| RefSeq Size: | 1116 bp |
| RefSeq ORF: | 342 bp |
| Locus ID: | 12390 |
| Cytogenetics: | 6 A2 |
| Gene Summary: | <p>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]</p> <p>Transcript Variant: This variant (2) transcribes past a splice site that is used in variant 1. This results in a novel 3' UTR, compared to variant 1. It encodes isoform 2 which is shorter at the C-terminus, compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p> |