

## Product datasheet for **MR227907**

### **Cav2 (NM\_001277756) Mouse Tagged ORF Clone**

#### **Product data:**

**Product Type:** Expression Plasmids  
**Product Name:** Cav2 (NM\_001277756) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Cav2  
**Synonyms:** AI447843  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >MR227907 representing NM\_001277756  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

**ATGGGGCTGGAGACCGAGAAGGCCGATGTGCAGCTTTCATGGCCGATGACGCCTACAGCCACCACAGTG**  
**GCGTTGACTACGCAGATCCTGAGAAGTATGTTGACTCGAGTCACGACCGGATCCTCACCAGCTCAACTC**  
**TCATCTCAAGCTAGGCTTCGAGGATCTGATTGCAGAGCCTGAGACTACACACTCCTTTGACAAAGTGTGG**  
**ATCTGCAGCCATGCTCTCTTTGAAATCAGCAAATATGTGATGTACAAGTTCCTGACCGTATTCTGGCCA**  
**TCCCTTGGCCTTCATTGCGGGTATCCTGTTTGCTACCCTCAGCTGTCTGCACATCTGG**

**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT**  
**ACAAGGATGACGACGATAAGGTTTAA**

**Protein Sequence:** >MR227907 representing NM\_001277756  
**Red=Cloning site Green=Tags(s)**

MGLETEKADVQLFMADDAYSHSGVDYADPEKYVDSSHDRDPHQLNSHLKLGFDLIAEPETTHSFDKVV  
ICSHALFEISKYVMYKFLTVFLAIPLAFIAGILFATLSCLHIW

**TRTRP**LEQK**LISEEDLAANDILDYKDDDDK**V

**Restriction Sites:** Sgfl-MluI

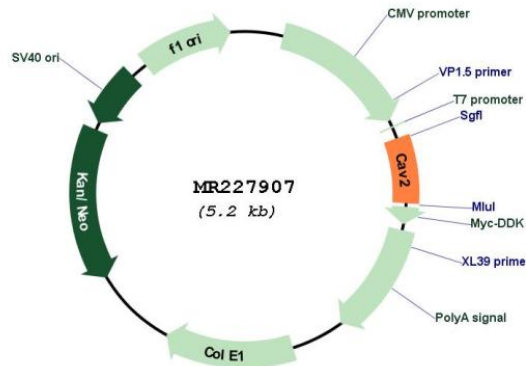


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Cloning Scheme:



Plasmid Map:



ACCN: NM\_001277756

ORF Size: 339 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](#)

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001277756.1</a></u> , <u><a href="#">NP_001264685.1</a></u>
<b>RefSeq Size:</b>	1116 bp
<b>RefSeq ORF:</b>	342 bp
<b>Locus ID:</b>	12390
<b>Cytogenetics:</b>	6 A2
<b>MW:</b>	13.4 kDa
<b>Gene Summary:</b>	<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>