

## Product datasheet for **SC307649**

### Caveolin 2 (CAV2) (NM\_198212) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Caveolin 2 (CAV2) (NM_198212) Human Untagged Clone
Tag:	Tag Free
Symbol:	CAV2
Synonyms:	CAV
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC307649 representing NM_198212. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGGGCTGGAGACGGAGAAGGCGGACGTACAGCTCTTCATGGACGACGACTCCTACAGCCACCACAGC
GGCCTCGAGTACGCCACCCGAGAAGTTCGCGGACTCGGACCAGGACCGGGATCCCCACCGGCTCAAC
TCGCATCTCAAGGATTTAATGCCTTTTGTAAAGACCTGCCTAATGGTTCTGCCTCAGTGCAGACAAT
ATGGAAGAGTGTGACAGATGTTATCATTGCTCCATTGTGTACGAGCGTAGGACGATGCTTCTCTTCTGT
CAGCCTGCAACTGAGCCAGGATTGAATACTTGGACCCAGGTCTGGAGATTGGGATACTGTAA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Restriction Sites: Sgfl-Mlul

Plasmid Map:

ACCN: NM\_198212

Insert Size: 339 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).



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<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<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>	<a href="#">NM_198212.2</a>
<b>RefSeq Size:</b>	2933 bp
<b>RefSeq ORF:</b>	339 bp
<b>Locus ID:</b>	858
<b>UniProt ID:</b>	<a href="#">P51636</a>
<b>Cytogenetics:</b>	7q31.2
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Protein Pathways:</b>	Focal adhesion
<b>MW:</b>	12.8 kDa
<b>Gene Summary:</b>	<p>The protein encoded by this gene is a major component of the inner surface of caveolae, small invaginations of the plasma membrane, and is involved in essential cellular functions, including signal transduction, lipid metabolism, cellular growth control and apoptosis. This protein may function as a tumor suppressor. This gene and related family member (CAV1) are located next to each other on chromosome 7, and express colocalizing proteins that form a stable hetero-oligomeric complex. Alternatively spliced transcript variants encoding different isoforms have been identified for this gene. Additional isoforms resulting from the use of alternate in-frame translation initiation codons have also been described, and shown to have preferential localization in the cell (PMID:11238462). [provided by RefSeq, May 2011]</p> <p>Transcript Variant: This variant (2) lacks a coding exon compared to variant 1. This results in a frame-shift and a shorter isoform (c) with a distinct C-terminus compared to isoform a.</p>