

## Product datasheet for MC212189

### Cavin3 (NM\_028444) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Cavin3 (NM\_028444) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Cavin3  
**Synonyms:** 3110015B12Rik; 6330514M23Rik; SRBC  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC212189 representing NM\_028444  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGGATCGCC

ATGGGGGAGAGCGCACTGGAGCCCGGACCTGTGCCTGAGACGCCCGCAGGGGGTCCGGTGCACGCAGTCA  
 CCGTGGTGACCTTGTGGAGAAATTGGCCACCATGCTGGAGGCTCTGCGGGAGCGCAAGGCGGCCCTGCC  
 TGAGAGGCAGGGCGGCCCTGGCGGGCTCCGTGCGTCGCATACAGAGTGGCCTGGGTGCGCTGAGTCGCAGC  
 CAGCACACCACCAACACACTGACGCAGCTGCTGGCCAAGGCGGAGCGCTGGGCTCGCACGCCGACG  
 CAGCCCAGGAGCGGGCCGTGCGTCGCGCTGCTCAGGTGCAGCGGTTGGAGGCCAACCACGGGCTGCTGGT  
 GGCGCGCGGGAAGCTGCACGTCCTGCTCTTCAAGGAGGAGACTGAAATTCAGCCCGCGCCTTCCAGAAA  
 GTCCCAGAGCTCTTGGGTCCGGAGGACCAAGTGGTGTGGGCCAGATCAGCCAGAGGATGAAGTTGGAG  
 AGAGTTCTGAAGAGGAGCCAGTGGAGTCCAGGGCTCAGCGGCTGCGCCGCACTGGTTTACAGAAAGTTCA  
 AAGCCTGAAAAGGGCTCTTTCCAGTCGTAAGCAGCACAGCCACACCAGTCAAGCCGCCACGCGTAGGG  
 CCTGTCCGGAGCTCTGAAGGCCCATCAGAAGGCCAGCCTGCAGCTCAGCCTGAAATGGAGTCCGAGCTCG  
 AGACTGCCCTGGAGCCAGAACCCTCAACCTACCAAGGAAGATCCTGAGAAACCCGTGCTTCAAATAGA  
 GAGCGCAGCCTGA

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-RsrII  
**ACCN:** NM\_028444  
**Insert Size:** 783 bp



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<b>OTI Disclaimer:</b>	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).
<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_028444.1</a> , <a href="#">NP_082720.1</a>
<b>RefSeq Size:</b>	1026 bp
<b>RefSeq ORF:</b>	783 bp
<b>Locus ID:</b>	109042
<b>UniProt ID:</b>	<a href="#">Q91VJ2</a>
<b>Cytogenetics:</b>	7 E3
<b>Gene Summary:</b>	Regulates the traffic and/or budding of caveolae (By similarity). Plays a role in caveola formation in a tissue-specific manner. Required for the formation of caveolae in smooth muscle but not in the lung and heart endothelial cells (PubMed: 28285351, PubMed:23652019). Regulates the equilibrium between cell surface-associated and cell surface-dissociated caveolae by promoting the rapid release of caveolae from the cell surface (PubMed:25588833). Plays a role in the regulation of the circadian clock. Modulates the period length and phase of circadian gene expression and also regulates expression and interaction of the core clock components PER1/2 and CRY1/2 (PubMed:23079727).[UniProtKB/Swiss-Prot Function]