

## Product datasheet for MC207369

### Cavin1 (NM\_008986) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cavin1 (NM_008986) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cavin1
Synonyms:	2310075E07Rik; AW546441; Cav-p60; Cavin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC207369 representing NM_008986 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGGATCGC

ATGGAGGATGTCACGCTCCATATCGTTGAGCGGCCGATTCCGGATTTCCCGATGCTTCTCAGAGGGCC  
CGGAGCCACCCAAGGGGAGGCGGGCCACGGAGGAGCCGTCGGGACCGGCTCCGACGAGCTGATCAA  
GTCGGACCAGGTGAACGGTGTGCTGGTCTGAGCCTTCTGGATAAAATCATCGGGCCGTTGACCAGATC  
CAGCTGACCCAAGCCCAGCTGGAGGAGCGACAGGCGGAGATGGAGGGCGCTGTGCAGAGCATCCAGGGAG  
AGCTGAGCAAGCTGGGCAAGGCCACGCCACCACGAGCAACACCGTGAGCAAGTTGCTGGAGAAGGTGCC  
CAAGGTGAGCGTCAACGTGAAGACCGTGCAGCGGAGCCTGGAGCGCCAGGCGGCCAGATAAAGAAACTG  
GAGGTCAACGAGGCGGAGCTGCTGAGGCGCCGCAACTTCAAAGTCATGATCTACCAGGATGAAGTCAAGC  
TGCCGGCCAAACTGAGCGTCAGCAAGTCGCTGAAAGAGTCGGAGGCACTGCCTGAGAAGGAGGGTGACGA  
GCTGGGCGAGGGCGAGCGGCCGAGGATGACACCGCGCGATCGAGCTGTCGTCGACGAGGCGGTGGAG  
GTGGAGGAGGTGATCGAGGAGTCCCGCGCGAGCGCATCAAGCGCAGCGGCTGCGGCGCGTGGAGCACT  
TCAAGAAGGCCCTTCTCAAGGAGAAGATGGAGAAGACCAAGGTGCGCAGCGTGAGAAGCTGGAGAAGAC  
GCGCCTGAAGACCAAGGAGAACCTGGAGAAGACACGGCACAGCTGGAGAAGCGCATGAACAAGCTGGGC  
ACGCGCCTGGTGCCCGTGGAGCGACGAGAGAAGCTGAAGACATCCCGGACAAGCTGCGCAAGTCCCTTCA  
CGCCCCACCATGTGGTGTATGCGCGCTCCAAGACCGCTGTCTACAAGGTGCCGCTTTCACCTTCCACGT  
CAAGAAGATCCGCGAGGGCGAGGTGGAGGTGCTGAAGGCCACCGAGATGGTGGAGGTGGGTCCCAGGAC  
GACGAGGTTGGCGGAGCGCGGCGAGGCCACTGACCTGCTGCGGGAGCAGCCCCGACGTGCACACGC  
TGCTGGAGATACCGAGGAGTCGGACGCGCTCTGGTGGACAAGAGCGACAGCGACTGA

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
TGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-RsrII



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<b>ACCN:</b>	NM_008986
<b>Insert Size:</b>	1179 bp
<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>	<u><a href="#">NM_008986.2</a></u> , <u><a href="#">NP_033012.1</a></u>
<b>RefSeq Size:</b>	3218 bp
<b>RefSeq ORF:</b>	1179 bp
<b>Locus ID:</b>	19285
<b>UniProt ID:</b>	<u><a href="#">O54724</a></u>
<b>Cytogenetics:</b>	11 63.95 cM
<b>Gene Summary:</b>	<p>Plays an important role in caveolae formation and organization. Essential for the formation of caveolae in all tissues (PubMed:18191225, PubMed:18840361, PubMed:18056712, PubMed:30188967). Core component of the CAVIN complex which is essential for recruitment of the complex to the caveolae in presence of calveolin-1 (CAV1) (PubMed:19546242). Essential for normal oligomerization of CAV1 (PubMed:23652019). Promotes ribosomal transcriptional activity in response to metabolic challenges in the adipocytes and plays an important role in the formation of the ribosomal transcriptional loop (PubMed:27528195). Dissociates transcription complexes paused by DNA-bound TTF1, thereby releasing both RNA polymerase I and pre-RNA from the template (PubMed:9582279, PubMed:11139612). The caveolae biogenesis pathway is required for the secretion of proteins such as GASK1A (PubMed:30188967).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).</p>