

## Product datasheet for **MR203388**

### Cavin3 (NM\_028444) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Cavin3 (NM\_028444) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Cavin3  
**Synonyms:** 3110015B12Rik; 6330514M23Rik; SRBC  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR203388 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGGGGAGAGCGCACTGGAGCCCGGACCTGTGCCTGAGACGCCCGCAGGGGGTCCGGTGCACGCAGTCA  
 CCGTGGTGACCTTGTGGAGAAATTGGCCACCATGCTGGAGGCTCTGCGGGAGCGGAAGGCGGCCTGGC  
 TGAGAGGCAGGGCGGCTGGCGGGCTCCGTGCGTCGCATACAGAGTGGCCTGGGTGCGCTGAGTCGCAGC  
 CAGCACACCACCAGCAACACACTGACGCAGCTGCTGGCCAAGGCGGAGCGCGTGGGCTCGCACGCCGACG  
 CAGCCCAGGAGCGGGCCGTGCGTCGCGCTGCTCAGGTGCAGCGTTGGAGCCAACCACGGGCTGCTGGT  
 GGCGCGCGGGAAGCTGCACGTCCTGCTCTCAAGGAGGAGACTGAAATTCAGCCCGCGCCTCCAGAAA  
 GTCCCAGAGCTCTGGGTCCGGAGGACCAAGTTGGTGTGGGCCAGATCAGCCAGAGGATGAAGTTGGAG  
 AGAGTTCTGAAGAGGAGCCAGTGGAGTCCAGGGCTCAGCGGCTGCGCCGCACTGGTTTACAGAAAGTTCA  
 AAGCCTGAAAAGGGCTCTTTCCAGTCGTAAGCAGCACAGCCACACCAGTCAAGCCGCCACGCGTAGGG  
 CCTGTCCGGAGCTCTGAAGGCCATCAGAAGGCCAGCCTGCAGCTCAGCCTGAAATGGAGTCCGAGCTCG  
 AGACTGCCCTGGAGCCAGAACCCTCAACCTACCAAGGAAGATCCTGAGAAACCCGTGCTTCAAATAGA  
 GAGCGCAGCC

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

**Protein Sequence:** >MR203388 protein sequence  
Red=Cloning site Green=Tags(s)

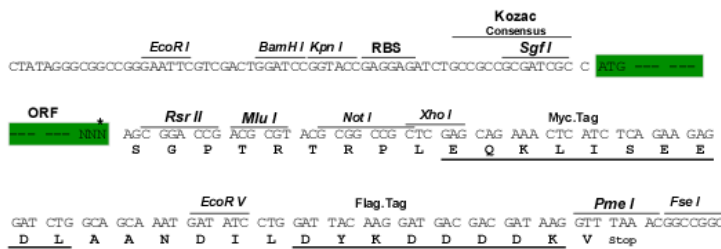
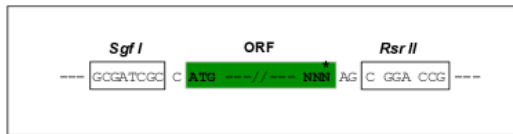
MGESALEPGVPVETPAGGPVHAVTVVTLLEKLATMLEALRERQGGLAERQGGLAGSVRRIQSGLGALSRS  
 HDTTSNTLTQLLAKAERVGSHADAAQERAVRRAAQVQRLEANHGILLVARGKLHVLLFKEETEIPARAFQK  
 VPELLGPEDQLVLGPDQPEDEVGESSEEEEPVESRAQRLRRTGLQKVQSLKRALSSRKAQAQPTPVKPPRVG  
 PVRSEGPSEGQPAAPPEMESELETALEPEPPQPTKEDPEKPVLIQIESAA

SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-RsrII

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_028444

**ORF Size:** 783 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](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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:**

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.

**RefSeq:** [NM\\_028444.1](#), [NP\\_082720.1](#)

**RefSeq Size:** 1026 bp

**RefSeq ORF:** 783 bp

**Locus ID:** 109042

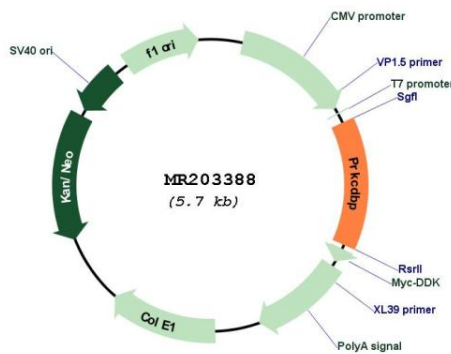
**UniProt ID:** [Q91VJ2](#)

**Cytogenetics:** 7 E3

**MW:** 27.9 kDa

**Gene Summary:** 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]

### Product images:



Circular map for MR203388