

Product datasheet for MC210673

Cavin4 (NM_026509) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cavin4 (NM_026509) Mouse Untagged Clone
Tag: Tag Free
Symbol: Cavin4
Synonyms: 2310039E09Rik; Murc
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC210673 representing NM_026509
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGAACACAACGGATCAGCTTCAAATGCTGGTAAAATCCACCAGAATCGGTTGTCAAGTGTGACGGAAG
 ATGAAGACCAAGACGCAGCCCTCACCATTGTGACCGTGTGGACAGAGTGGCCAGTGTGCGTGACAGTGT
 GCAGGCAAGCCAGAAGAGAATTGAGGAGAGACACAGAGAATGGGTAACGCGATAAAGTCTGTCCAATA
 GACCTGCTGAAGCTCTCACAGTCACACAGCAATACGGGCTACGTTGTCAACAAGCTGTTTGAAGAAGCC
 GGAAAGTCAGCGCTCACATTAAGGATGTCAAGGCCGGGTAGAGAAGCAACAGGTTTCGTGTAACCAAAGT
 CGAAACCAAGCAAGAAGAAATAATGAAGAAAAACAAATTCGAGTGGTAATCTTCCAGGAGGACATTCCC
 TGCCCCGCATCCCTGTCTGTTGTTAAAGACAGAAGCCTGCCCGAGAACCAGGAGGAGGCCGAAGAAGTCT
 TCGATCCCCCAATAGAGCTCTCCTCGGATGAGGAGTATTATGTTGAAGAAAGCAGATCTGCCAGGCTTAG
 GAAGTCAGGCAAAGAGCACATTGACCACATCAAGAAAGCCTTTCCAGAGAAAACATGCAGAAGACACGG
 CAGACTTTGACAAGAAAGTGAAGTGGGATTAGAAGTGGTACTCCTGAGAGGAGAGAGAGGCTGA
 GGCAGTCGGGAGAGAGGCTGAGGCAGTCAGGAGAGAGGCTGAGGCAGTCGGGGAAAGATTTAAGAAATC
 GATTTCCAGTGCCGCTCCCTCAAAGGAAGCTTTTAAAGATTTCGAGCCTTAGGAAAAGCAGGATCCCAAG
 GCCGAGGGCCAGGAGGTAGACAGAGGGATGGGCGTGGACATCATCTCAGGTAGCCTGGCTCTGGGGCCCA
 TCCATGAGTTCCACTCTGATGAGTTCAGTGAACAGAAAAGGAGGTGACCAAAGGAGGTACAGTCCCCA
 AGAAGGAGGGGACCCCCAACGCCTGAGCCTTTGAAGGTGACTTTTAAACCCAGGTGAGGGTAGAGGAT
 GACGAGTCACTCCTGTTGGAGCTAAAGCAGTCTCATAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_026509



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Insert Size:	1089 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).
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:	<ol style="list-style-type: none">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:	<u>NM_026509.3, NP_080785.2</u>
RefSeq Size:	2062 bp
RefSeq ORF:	1089 bp
Locus ID:	68016
UniProt ID:	<u>A2AMM0</u>
Cytogenetics:	4 B1
Gene Summary:	Modulates the morphology of formed caveolae in cardiomyocytes, but is not required for caveolar formation. Facilitates the recruitment of MAPK1/3 to caveolae within cardiomyocytes and regulates alpha-1 adrenergic receptor-induced hypertrophic responses in cardiomyocytes through MAPK1/3 activation (PubMed:24567387). Contributes to proper membrane localization and stabilization of caveolin-3 (CAV3) in cardiomyocytes (PubMed:26497963). Induces RHOA activation and activates NPPA transcription and myofibrillar organization through the Rho/ROCK signaling pathway (PubMed:18332105). [UniProtKB/Swiss-Prot Function]