OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MR206126

Cavin1 (NM_008986) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cavin1 (NM_008986) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cavin1
Synonyms:	2310075E07Rik; AW546441; Cav-p60; Cavin
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR206126 representing NM_008986
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGGATGTCACGCTCCATATCGTTGAGCGGCCGTATTCCGGATTTCCCGATGCTTCCTCAGAGGGCC
CGGAGCCCACCCAAGGGGAGGCGCGGGCCACGGAGGAGCCGTCGGGGACCGGCTCCGACGAGCTGATCAA
GTCGGACCAGGTGAACGGTGTGCTGGTGCTGAGCCTTCTGGATAAAATCATCGGCGCCGTTGACCAGATC
CAGCTGACCCAAGCCCAGCTGGAGGAGCGACAGGCGGAGATGGAGGGCGCTGTGCAGAGCATCCAGGGAG
AGCTGAGCAAGCTGGGCAAGGCGCACGCCACCACGAGCAACACCGTGAGCAAGTTGCTGGAGAAGGTGCG
CAAGGTCAGCGTCAACGTGAAGACCGTGCGCGGCAGCCTGGAGCGCCAGGCCGGCCAGATAAAGAAACTG
GAGGTCAACGAGGCGGAGCTGCTGAGGCGCCGCAACTTCAAAGTCATGATCTACCAGGATGAAGTCAAGC
TGCCGGCCAAACTGAGCGTCAGCAAGTCGCTGAAAGAGTCGGAGGCACTGCCTGAGAAGGAGGGTGACGA
GCTGGGCGAGGGCGAGCGGCCCGAGGATGACACCGCGGCGATCGAGCTGTCGTCCGACGAGGCGGTGGAG
GTGGAGGAGGTGATCGAGGAGTCCCGCGCCGAGCGCATCAAGCGCAGCGGCCTGCGGCGCGTGGACGACT
TCAAGAAGGCCTTCTCCAAGGAGAAGATGGAGAAGACCAAGGTGCGCACGCGTGAGAACCTGGAGAAGAC
GCGCCTGAAGACCAAGGAGAACCTGGAGAAGACACGGCACACGCTGGAGAAGCGCATGAACAAGCTGGGC
ACGCGCCTGGTGCCCGTGGAGCGACGAGAGAAGCTGAAGACATCCCGGGACAAGCTGCGCAAGTCCTTCA
CGCCCGACCATGTGGTGTATGCGCGCTCCAAGACCGCTGTCTACAAGGTGCCGCCTTTCACCTTCCACGT
CAAGAAGATCCGCGAGGGCGAGGTGGAGGTGCTGAAGGCCACCGAGATGGTGGAGGTGGGTCCCGAGGAC
GACGAGGTTGGCGCGGAGCGCGGCGAGGCCACTGACCTGCTGCGCGGGAGCAGCCCCGACGTGCACACGC
TGCTGGAGATCACCGAGGAGTCGGACGCCGTCCTGGTGGACAAGAGCGACAGCGAC

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

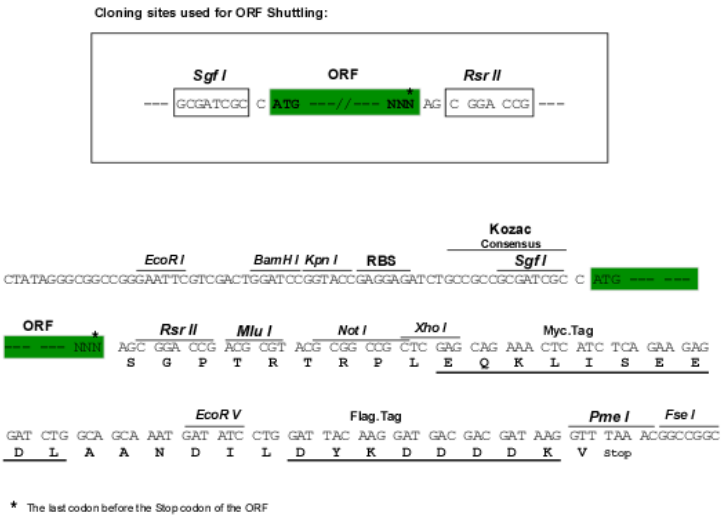
>MR206126 representing NM_008986
Red=Cloning site Green=Tags(s)

MEDVTLHIVERPYSGFPDASSEGPEPTQGEARATEEPSGTGSDELIKSDQVNGVLVLSLLDKIIGAVDQI
QLTQAQLEERQAEMEGAVQSIQGELSKLGKAHATTSNTVSKLLEKVRKVSVNVKTVRGSLERQAGQIKKL
EVNEAELLRRRNFKVMIYQDEVKLPAKLSVSKSLKESEALPEKEGDELGEGERPEDDTAAIELSSDEAVE
VEEVIEESRAERIKRSGLRRVDDFKKAFSKEKMEKTKVRTRENLEKTRLKTKENLEKTRHTLEKRMNKLG
TRLVPVERREKLKTSRDKLRKSFTPDHVVYARSKTAVYKVPPFTFHVKKIREGEVEVLKATEMVEVGPED
DEVGAERGEATDLLRGSSPDVHTLLEITEESDAVLVDKSDSD

SGPTRTRRLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_008986

ORF Size: 1176 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_008986.2, NP_033012.1

RefSeq Size: 3218 bp

RefSeq ORF: 1179 bp

Locus ID: 19285

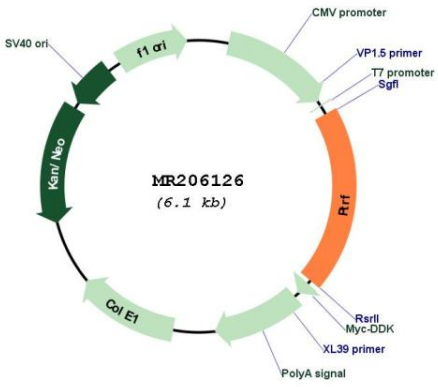
UniProt ID: O54724

Cytogenetics: 11 63.95 cM

MW: 44.4 kDa

Gene Summary: 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]

Product images:



Circular map for MR206126