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Product datasheet for RC209277

CAVIN1 (NM_012232) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CAVIN1 (NM_012232) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CAVIN1
Synonyms:	CAVIN; cavin-1; CGL4; FKSG13; PTRF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC209277 representing NM_012232
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGGACCCCACGCTCTATATTGTCGAGCGGCCGCTTCCCGGGTACCCCGACGCCGAGGCCCCGGAGC
CTTCCTCCGCTGGGGCTCAGGCAGCGGAGGAGCCGTCGGGGGCCGGCTCAGAAGAGCTGATCAAGTCGGA
CCAGGTGAACGGCGTGCTGGTGCTGAGCCTCCTGGACAAAATCATCGGGGCCGTAGACCAGATCCAGCTG
ACTCAAGCACAGCTGGAGGAGCGGCAGGCGGAGATGGAGGGCGCAGTGCAGAGCATCCAGGGCGAGCTGA
GCAAGCTGGGCAAGGCGCACGCCACCACGAGCAATACGGTGAGCAAGCTGCTGGAGAAGGTGCGCAAGGT
CAGCGTCAACGTGAAGACCGTGCGCGGCAGCCTGGAGCGCCAGGCGGGGCAGATCAAGAAGCTGGAGGTC
AACGAGGCCGAGCTGCTGCGGCGCCGCAACTTTAAAGTCATGATCTACCAGGATGAAGTGAAGCTGCCGG
CCAAACTGAGCATCAGCAAATCGCTGAAAGAGTCGGAGGCGCTGCCAGAGAAGGAGGGCGAGGAGCTGGG
CGAGGGCGAGCGGCCCGAGGAGGACGCAGCGGCGCTGGAGCTTTCGTCGGACGAGGCGGTGGAGGTTGAG
GAGGTTATTGAGGAGTCCCGCGCAGAGCGTATCAAGCGCAGCGGCCTGCGGCGCGTGGACGACTTCAAGA
AGGCCTTCTCCAAGGAGAAGATGGAGAAGACCAAGGTGCGTACCCGCGAGAACCTGGAGAAGACGCGCCT
CAAGACCAAGGAAAACCTGGAGAAGACGCGGCACACCCTGGAGAAGCGCATGAACAAGCTGGGCACGCGC
CTGGTGCCCGCCGAGCGGCGCGAGAAACTGAAGACGTCGCGRGACAAGTTGCGCAAATCCTTCACGCCCG
ACCACGTGGTGTACGCGCGCTCCAAGACCGCGGTCTACAAGGTGCCACCCTTCACCTTCCACGTCAAGAA
GATCCGCGAGGGCCAGGTGGAAGTGCTCAAGGCCACCGAGATGGTGGAGGTGGGCGCCGACGACGACGAG
GGCGGCGCGGAGCGCGGGGAGGCCGGCGACCTGCGGCGCGGGAGCAGCCCCGACGTGCACGCGCTGCTGG
AGATCACCGAGGAGTCGGACGCCGTGCTGGTGGACAAGAGCGACAGCGAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC209277 representing NM_012232
Red=Cloning site Green=Tags(s)

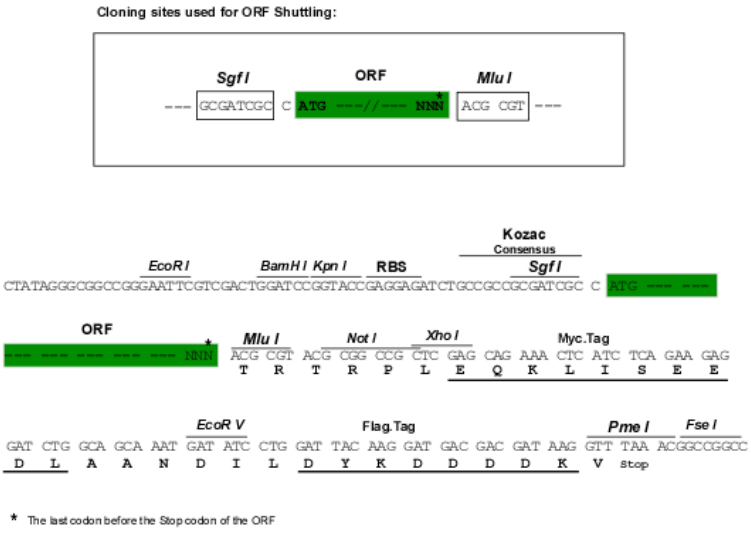
MEDPTLYIVERPLPGYPDAEAPEPSSAGAQAAEEPSGAGSEELIKSDQVNGVLVLSLLDKIIGAVDQIQL
TQAQLEERQAEMEGAVQSIQGELSKLGKAHATTSNTVSKLLEKVRKVSVNVKTVRGSLERQAGQIKKLEV
NEAELLRRRNFKVMIYQDEVKLPAKLSISKSLKESEALPEKEGEELGEGERPEEDAAALELSSDEAVEVE
EVIEESRAERIKRSGLRRVDDFKKAFSKEKMEKTKVRTRENLEKTRLKTKENLEKTRHTLEKRMNKLGTR
LVPAERREKLKTSXDKLRKSFTPDHVVYARSKTAVYKVPPFTFHVKKIREGQVEVLKATEMVEVGADDDE
GGAERGEAGDLRRGSSPDVHALLEITEESDAVLVDKSDSD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg2539_c07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_012232

ORF Size: 1170 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).

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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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_012232.6
RefSeq Size:	3580 bp
RefSeq ORF:	1173 bp
Locus ID:	284119
UniProt ID:	Q6NZI2
Cytogenetics:	17q21.2
Protein Families:	Transcription Factors
MW:	43.3 kDa
Gene Summary:	This gene encodes a protein that enables the dissociation of paused ternary polymerase I transcription complexes from the 3' end of pre-rRNA transcripts. This protein regulates rRNA transcription by promoting the dissociation of transcription complexes and the reinitiation of polymerase I on nascent rRNA transcripts. This protein also localizes to caveolae at the plasma membrane and is thought to play a critical role in the formation of caveolae and the stabilization of caveolins. This protein translocates from caveolae to the cytoplasm after insulin stimulation. Caveolae contain truncated forms of this protein and may be the site of phosphorylation-dependent proteolysis. This protein is also thought to modify lipid metabolism and insulin-regulated gene expression. Mutations in this gene result in a disorder characterized by generalized lipodystrophy and muscular dystrophy. [provided by RefSeq, Nov 2009]

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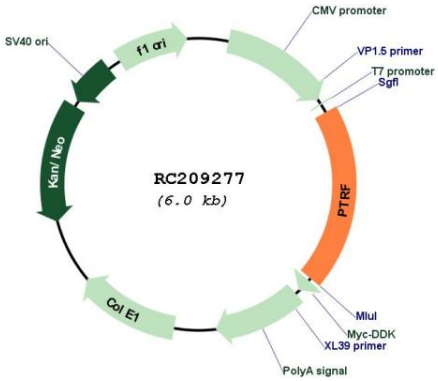
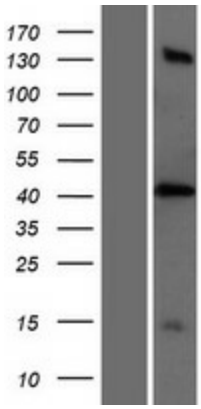
Product images:



Circular map for RC209277



Western blot validation of overexpression lysate (Cat# [LY402171]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209277 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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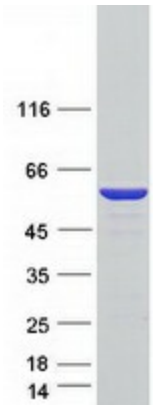

Coomassie blue staining of purified CAVIN1 protein (Cat# [TP309277]). The protein was produced from HEK293T cells transfected with CAVIN1 cDNA clone (Cat# RC209277) using MegaTran 2.0 (Cat# [TT210002]).

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