

Product datasheet for SC101318

CAVIN1 (NM_012232) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CAVIN1 (NM_012232) Human Untagged Clone
Tag:	Tag Free
Symbol:	CAVIN1
Synonyms:	CAVIN; cavin-1; CGL4; FKSG13; PTRF
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC101318 sequence for NM_012232 edited (data generated by NextGen Sequencing)

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ATGGAGGACCCACGCTCTATATTGTGCGAGCGGCCGCTTCCCGGGTNNCCGACGCCGAG
GCCCGGAGCCTTCTCCTCGCTGGGGCTCAGGCAGCGGAGAGCCGTCGGGGGCCGCTCA
GAAGAGCTGATCAAGTCGGACCGAGTGAACGGCGTGCTGGTGTGAGCCTCCTGGACAAA
ATCATCGGGGCCGTAGACCAGATCCAGCTGACTCAAGCACAGCTGGAGGAGCGGCAGGCG
GAGATGGAGGGCGCAGTGCAGAGCATCCAGGGCGAGCTGAGCAAGCTGGGCAAGGCGCAC
GCCACCACGAGCAATACGGTGAAGCTGCTGGAGAAGGTGCGCAAGGTGAGCGTCAAC
GTGAAGACCGTGCAGCGCAGCCTGGAGCGCCAGGCGGGGCGAGTCAAGAAGCTGGAGGTC
AACGAGGCCGAGCTGCTGCGGCGCCGCAACTTTAAAGTCATGATCTACCAGGATGAAGTG
AAGCTGCCGGCCAACTGAGCATCAGCAAATCGCTGAAAGAGTCGGAGGCGCTGCCAGAG
AAGGAGGGCGAGGAGCTGGGCGAGGGCGAGCGGCCGAGGAGGACGCAGCGGCGCTGGAG
CTTTCGTGCGGACGAGGCGGTGGAGGTTGAGGAGTTATTGAGGATCCCGCGCAGAGCGT
ATCAAGCGCAGCGGCTGCGGCGGTGGACGACTTCAAGAAGGCCTTCTCCAAGGAGAAG
ATGGAGAAGACCAAGGTGCGTACCCGCGAGAACCTGGAGAAGACGCGCCTCAAGACCAAG
GAAAACCTGGAGAAGACGCGGCACACCTGGAGAAGCGCATGAACAAGCTGGGCACGCGC
CTGGTGCCCGCCGAGCGGCGGAGAACTGAAGACGTCGCGGGACAAGTTGCGCAATCC
TTCACGCCCCGACCACGTGGTGTACGCGCGCTCCAAGACCGCGGTCTACAAGGTGCCACCC
TTCACCTTCCACGTCAAGAAGATCCGCGAGGGCCAGGTGGAAGTGCTCAAGGCCACCGAG
ATGGTGGAGGTGGGCGCCGACGACGACGAGGGCGGCGGAGCGCGGGGAGGCGCGGCGAC
CTGCGGCGCGGGAGCAGCCCCGACGTGCACGCGTGTGGAGATCACCGAGGAGTCGGAC
GCCGTGCTGGTGGACAAGAGCGACAGCGACTGA

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Clone variation with respect to NM_012232.5
47 a=>n;48 c=>n;49 c=>n



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_012232 unedited CAATCCCCCGCCCGTTGACGCAATGGGCGGTAGGCGTGTCCGGTGGGAGGTCTATATAAG CAGAGCTCATTTAGGTGACACTATAGGGGACAGGCTACTTGTCTTTTTGCAGCGGCCGC GAATTCGGCACGAGGGTCCCAGTGGCAGGACGTGGCTCGAGTTTCTCTGCTCTCCGC TCTCGCCCGTAGCTCTCCTCCCTTCCGCTCCTGCTTCTCTCCGGTCTCCCGTCCAGC TCCAGGGCGACCCGGCCGGTCCCAGCAGGCTCCGGGTAGCCATGGAGGACCCACGCTCT ATATTGTCGAGCGCCGCTTCCCAGGTACCCCGACGCCGAGGCCCGGAGCCTTCTCCG CTGGGGCTCAGGCAGCGGAGGAGCCGTCGGGGCCGGCTCAGAAGAGTGATCAAGTCGG ACCAGGTGAACGCGTGCTGGTGTGAGCCTCCTGGACAAAATCATCGGGCCGTAGACC AGAGCCAGCTGACTCAAGCACAGCTGGAGGAGCGGAGGCGGAGATGGAGGGCGCAGTGC AGAGCATCCAGGGCGAGCTGAGCAAGCTGGGCAAGGCGCACGCCACCACGAGCAATACGG TGAGCAAGCTGCTGGAGAAGGTGCGCAAGGTGAGCGTCAACGTGAAGACCGTGCAGCGCA GCCTGGAGCGCCAGGCGNGCAGATCAAGAAGCTGGAGGTCAACGAGGCCGAGCTGCTGC GGCGCCCAACTTTAAAGTCATGATCTACCAGGATGAAGTGAAGTGCCTGCCAACTGA GCATCAGCAAATCGTGAAAGAGTCTGAGCGCTGCCANAAACNGAGGCTAGGAGCATGG CTAGGGCTAGCTGCCCTAGGAGACGCACGGCGCTGGAGCTATCTCGACGAGCGGTGGAGG TTAGGAGGTATTGAGGAGTCTCGCANACGTATCAGCCT</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_012232 unedited AAACCTTTTGANAGACAGTTTATTGGTCCGGCTGCTCACCAGGACACAGCAACGTGAGCAG TTCCCAAGCCCCATAAAATGCATCTGCCACAGCTCAGGCCCTTCAGGCCATCAGCAC CAAGGGACCTTGCCACAATCCCCAACCTCCCTCGGCAGAGGGTCTTCAGCCATTCAG AGGAGAGAAGAGAACCGAGAAAGGAAAAGGAAGAAAAAAAAAAAAAAAAAGCAAAGCTTTG TATTGTATAAAAGTTTTGTGTCCCAGGCTCCCTCCCCAATCCCTTAAACAATGAACT GCAGTTCTAAAAAGCAGGGCAGAGAAGGTAAGGAGCAGGTGGGGGAAAGGAGGAAGCTCT CGGGCCCTCCCTTCAGGCTGTGACTGGGGAGAGGGGCTGTTCTTGCTTCTGACAAACCC CTTTAATGGGGAGGAACAAGGGGACTCGTGTCTTGAGAACCTGGTGTGCTTGAGAACC CAGTCCGAACAGAATCAGGCCTCTGGACTGGGAGCAACTCCCTTACCCCCAAAGATT CAGGAAAAGCACCCCAAGGACAAGGAAACCAATGAGGTCTGGGCTAGCTTGCAGCTTTA GGATACTAGCTCTAGGGAAGGATTTTTCTTTTTAAACAGCGTCTCACTCTGTTGCCTA GGATGGAGCACAGAGGCACCCTCATAGCTCACTGCAGCCTCAAACCTCCTGGGCTCTGGG ATCCTCCGCCTCAGCCTCCCAAGTAGCTGAGACCACAGGCACGTGCCACCATGCTCCTA GGAAGGAGCTTGAGAATGAACTGCCAGGAGTGAACCAGGGCTGGCTGTCTGTGATGTT CTCTCCCACTCCCTTCAGCTCTCAACTTGGTGGCAGGGCCGGCACCCCTGCTCTNCT CCTAACTNCC</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_012232
Insert Size:	4200 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:

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_012232.2](#), [NP_036364.2](#)

RefSeq Size: 3580 bp

RefSeq ORF: 1173 bp

Locus ID: 284119

UniProt ID: [Q6NZI2](#)

Cytogenetics: 17q21.2

Protein Families: Transcription Factors

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]