

Product datasheet for **SC328227**

Caveolin 1 (CAV1) (NM_001172895) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Caveolin 1 (CAV1) (NM_001172895) Human Untagged Clone
Tag:	Tag Free
Symbol:	Caveolin 1
Synonyms:	BSCL3; CGL3; LCCNS; MSTP085; PPH3; VIP21
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_001172895 edited
 GAATTCGGCACGAGGCTCCTCACAGTTTTTCATCCAGCCACGGGCCAGCATGTCTGGGGG
 AAATACGTAGACTCGGAGGGACATCTCTACACCGTTCCCATCCGGGAACAGGGCAACATC
 TACAAGCCCAACAACAAGGCCATGGCAGACGAGCTGAGCGAGAAGCAAGTGTACGACGCG
 CACACCAAGGAGATCGACCTGGTCAACCGCGACCCTAACACCTCAACGATGACGTGGTC
 AAGATTGACTTTGAAGATGTGATTGCAGAACCAGAAGGGACACACAGTTTTGACGGCATT
 TGGAAAGCCAGCTTACCACCTTCACTGTGACGAAATACTGGTTTTACCCTTGTCTCT
 GCCCTCTTTGGCATCCCGATGGCACTCATCTGGGGCATTACTTCGCCATTCTCTTTTC
 CTGCACATCTGGGCAGTTGTACCATGCATTAAGAGCTTCTGATTGAGATTCAAGTGCATC
 AGCCGTGTCTATTCCATCTACGTCCACACCGTCTGTGACCCACTCTTTGAAGCTGTTGGG
 AAAATATTCAGCAATGTCCGCATCAACTGCAGAAAGAAATATAAATGACATTTCAAGGA
 TAGAAGTATACCTGATTTTTTTCTTTAATTTTCTGTCAAGTTCCAAGTTGTAATA
 CAGCAACAATTTATGAATTGAATTATCTTGGTTGAAAATAAAAAGATCACTTCTCAGTT
 TTCATAAGTATTATGTCTCTTCTGAGCTATTTTCATCTATTTTTGGCAGTCTGAATTTTTA
 AAACCCATTTAAATTTTTTCTTACCTTTTTATTTGCATGTGGATCAACCATCGCTTTA
 TTGGCTGAGATATGAACATATTGTTGAAAGGTAATTTGAGAGAAATATGAAGAAGTGAAG
 AGGAAAAAAAAAAAAAAAAAGAAAAGAACCAACAACCTCAACTGCCTACTCCAAAATGTTGGT
 CATTTTATGTTAAGGGAAGAATTCAGGGTATGGCCATGGAGTGTACAAGTATGTGGGCA
 GATTTTCAGCAAACCTCTTTCCCACTGTTAAGGAGTTAGTGGATTACTGCCATTCACCT
 CATAATCCAGTAGGATCCAGTGATCCTTACAAGTTAGAAAACATAATCTTCTGCCTTCTC
 ATGATCCAACATAATGCCTTACTCTTCTTGAATTTTAACTATGATATTTCTGTGCCTG
 AATATTTGTTATGTAGATAACAAGACCTCAGTGCCTTCTGTTTTTACATTTTCTTTT
 CAAATAGGGTCTAACTCAGCAACTCGCTTTAGGTGAGCAGCTCCCTGAAGACCAAAAT
 AGAATATCCATGACCTAGTTTTTCCATGCGTGTCTGACTCTGAGCTACAGAGTCTGGTG
 AAGCTCACTTCTGGGCTTCTGGAACATCTTTATCCGTAGTGGGTATGGTTGACACT
 AGCCCAATGAAATGAATTAAGTGGACCAATAGGGCTGAGCTCTCTGTGGGCTGGCAGTC
 CTGGAAGCCAGCTTTCCCTGCCTCTCATCAACTGAATGAGGTCAGCATGTCTATTCAGCT
 TCGTTTTATTTCAAGAATAATCACGCTTCTGAAATCCAACTAATCCATCACCGGGGTG
 GTTTAGTGGCTCAACATTGTGTTCCCATTTTCAAGTATGAGTGGGCTCCAAGGAGGGGC
 TGTAAGTGGAGGCCATTGTGTGAGCCTATCAGAGTTGCTGCAAACTGACCCCTGCTCA
 GTAAGCACTTAAAGATTGAAGTATTTTGTGGAATAAGTTCAAATTTCTGAACTCA
 AACTGAGGAATTTACCTGTAACTGAGTCGTACAGAAAGCTGCCTGGTATATCCAAA
 GCTTTTTATTCCTCTGCTCATATTGTGATTCTGCCTTTGGGGACTTTTCTTAAACCTTC
 AGTTATGATTTTTTTTTCATACACTTATTGAACTCTGCTTGATTTTTGCCTCTTCCAGT
 CTTCTGACACTTTAATTACCACTGTTACCTACTTTGACTTTTTGCATTTAAACAGA
 CACTGGCATGGATATAGTTTTACTTTTAACTGTGTACATAACTGAAAATGTGCTATACT
 GCATACTTTTTAAATGTAAGATATTTTATCTTTATATGAAGAAAATCACTTAGGAAAT
 GGCTTTGTGATTCAATCTGTAAGTGTATTCCAAGACATGTCTGTTCTACATAGATGC
 TTAGTCCCTCATGCAAAATCAATTACTGGTCCAAAAGATTGCTGAAATTTTATATGCTTAC
 TGATATATTTTACAATTTTTTATCATGCATGCTCTGTAAGGTTACAAGCCTGCACAATA
 AAAATGTTTAAACGGTTAAAAAAAAAAAAAAAAAACTCGAC

Restriction Sites: Please inquire
ACCN: NM_001172895
Insert Size: 2400 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).

OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	NM_001172895.1 , NP_001166366.1
RefSeq Size:	3212 bp
RefSeq ORF:	444 bp
Locus ID:	857
Cytogenetics:	7q31.2
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Focal adhesion, Viral myocarditis
Gene Summary:	<p>The scaffolding protein encoded by this gene is the main component of the caveolae plasma membranes found in most cell types. The protein links integrin subunits to the tyrosine kinase FYN, an initiating step in coupling integrins to the Ras-ERK pathway and promoting cell cycle progression. The gene is a tumor suppressor gene candidate and a negative regulator of the Ras-p42/44 mitogen-activated kinase cascade. Caveolin 1 and caveolin 2 are located next to each other on chromosome 7 and express colocalizing proteins that form a stable hetero-oligomeric complex. Mutations in this gene have been associated with Berardinelli-Seip congenital lipodystrophy. Alternatively spliced transcripts encode alpha and beta isoforms of caveolin 1.[provided by RefSeq, Mar 2010]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation at a downstream start codon, compared to variant 1. The encoded isoform (beta) is shorter than isoform alpha. Variants 2, 3 and 4 encode the same isoform.</p>