

## Product datasheet for **SC119082**

### Caveolin 1 (CAV1) (NM\_001753) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Caveolin 1 (CAV1) (NM_001753) Human Untagged Clone
Tag:	Tag Free
Symbol:	Caveolin 1
Synonyms:	BSCL3; CGL3; LCCNS; MSTP085; PPH3; VIP21
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:**

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>OriGene sequence for NM_001172895 edited
GAATTCGGCACGAGGCTCCTCACAGTTTTTCATCCAGCCACGGGCCAGCATGTCTGGGGG
AAATACGTAGACTCGGAGGGACATCTCTACACCGTTCCCATCCGGGAACAGGGCAACATC
TACAAGCCCAACAACAAGGCCATGGCAGACGAGCTGAGCGAGAAGCAAGTGTACGACGCG
CACACCAAGGAGATCGACCTGGTCAACCGCGACCCTAACACCTCAACGATGACGTGGTC
AAGATTGACTTTGAAGATGTGATTGCAGAACCAGAAGGGACACACAGTTTTGACGGCATT
TGGAAAGGCCAGCTTCACCACCTTCACTGTGACGAAATACTGGTTTTACCAGCTTGCTCT
GCCCTCTTTGGCATCCCGATGGCACTCATCTGGGGCATTACTTCGCCATTCTCTTTTC
CTGCACATCTGGGCAGTTGTACCATGCATTAAGAGCTTCTGATTGAGATTCAAGTGCATC
AGCCGTGTCTATTCCATCTACGTCCACACCGTCTGTGACCCACTCTTTGAAGCTGTTGGG
AAAATATTCAGCAATGTCCGCATCAACTGCAGAAAGAAATATAAATGACATTTCAAGGA
TAGAAGTATACCTGATTTTTTTCTTTAATTTTCTGTCAAGTTCCAAGTTGTAATA
CAGCAACAATTTATGAATTGAATTATCTTGGTTGAAAATAAAAAGATCACTTCTCAGTT
TTCATAAGTATTATGTCTCTTCTGAGCTATTTTCATCTATTTTTGGCAGTCTGAATTTTTA
AAACCCATTTAAATTTTTTCTTACCTTTTTATTTGCATGTGGATCAACCATCGCTTTA
TTGGCTGAGATATGAACATATTGTTGAAAGGTAATTTGAGAGAAATATGAAGAAGTGAAG
AGGAAAAAAAAAAAAAAAAAGAAAAGAACCAACAACCTCAACTGCCTACTCCAAAATGTTGGT
CATTTTATGTTAAGGGAAGAATTCAGGGTATGGCCATGGAGTGTACAAGTATGTGGGCA
GATTTTCAGCAAACCTCTTTCCCACTGTTAAGGAGTTAGTGGATTACTGCCATTCACCT
CATAATCCAGTAGGATCCAGTGATCCTTACAAGTTAGAAAACATAATCTTCTGCCTTCTC
ATGATCCAACATAATGCCTTACTCTTCTGAAATTTAACCTATGATATTTCTGTGCCTG
AATATTTGTTATGTAGATAACAAGACCTCAGTGCCTTCTGTTTTTACATTTTCTTTT
CAAATAGGGTCTAACTCAGCAACTCGCTTTAGGTCAGCAGCCTCCCTGAAGACCAAAAT
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AGCCCAATGAAATGAATTAAGTGGACCAATAGGGCTGAGCTCTCTGTGGGCTGGCAGTC
CTGGAAGCCAGCTTTCCCTGCCTCTCATCAACTGAATGAGGTCAGCATGTCTATTCAGCT
TCGTTTTTTTTCAAGAATAATCACGCTTCTGAAATCCAACTAATCCATCACCGGGGTG
GTTTAGTGGCTCAACATTGTGTTCCCATTTTCAAGTATCAGTGGGCTCCAAGGAGGGGC
TGTAAGTGGAGGCCATTGTGTGAGCCTATCAGAGTTGCTGCAAACCTGACCCCTGCTCA
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AACTGAGGAATTTACCTGTAAACCTGAGTCGTACAGAAAGCTGCCTGGTATATCCAAA
GCTTTTTATTCCTCCTGCTCATATTGTGATTCTGCCTTTGGGGACTTTTCTTAAACCTTC
AGTTATGATTTTTTTTTCATACACTTATTGAACTCTGCTTGATTTTTGCCTCTTCCAGT
CTTCTGACACTTTAATTACCAACCTGTTACCTACTTTGACTTTTTGCATTTAAACAGA
CACTGGCATGGATATAGTTTTACTTTTAACTGTGTACATAACTGAAAATGTGCTATACT
GCATACTTTTTAAATGTAAGATATTTTATCTTTATATGAAGAAAATCACTTAGGAAAT
GGCTTTGTGATTCAATCTGTAAACTGTGATTCCAAGACATGTCTGTTCTACATAGATGC
TTAGTCCCTCATGCAAAATCAATTACTGGTCCAAAAGATTGCTGAAATTTTATATGCTTAC
TGATATATTTTACAATTTTTTATCATGCATGTCCTGTAAGGTTACAAGCCTGCACAATA
AAAATGTTTAAACGGTTAAAAAAAAAAAAAAAAAACTCGAC
    
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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_001753 unedited</p> <pre>TTGTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCTCCTCACAGTTTTCT ATCCAGCCACGGGCCAGCATGTCTGGGGCAAATACGTAGACTCGGAGGGACATCTCTAC ACCGTTCCCATCCGGGAACAGGGCAACATCTACAAGCCCAACAACAAGGCCATGGCAGAC GAGCTGAGCGAGAAGCAAGTGTACGACGCGCACACCAAGGAGATCGACCTGGTCAACCGC GACCCTAAACACCTCAACGATGACGTGGTCAAGATTGACTTTGAAGATGTGATTGCAGAA CCAGAAGGGACACACAGTTTTGACGGCATTGGAAAGGCCAGCTTACCACCTTCACTGTG ACGAAATACTGGTTTTACCGCTTGCTGTCTGCCCTCTTTGGCATCCCGATGGCACTCATC TGGGGCATTACTTCGCCATTCTCTTTCTTCTGCACATCTGGGCAGTTGTACCATGCATT AAGAGTTCCTGATTGAGATTCACTGCATCAGCCGTGTCTATTCCATCTACGTCCACACC GTTTGTGACCCACTCTTTGAAGCTGTTGGGAAAATATTCAAGCAATGTCCGCATCACCTTG CAGAAAGAAAATAAAATGACATTTTCAGGATAGAAGTATACCTGATTTTTTTTTCCTTTT AATCTTCTGTCAAGTTCCAAGTTGCTAATACAGCAACAATTTATGAATTGAATTACCTC GGTTGAAAAAAAAGATCACTTTCTCAGTTTTTCATAAGAATTATGCTCTTCTGAGCTATT TCATCTATTTTGGGCAGCCTGAATTTTAAAACCCATTAATTTTTTCCCTTCCCTTTTT ATTTGAAGGGGGAACAACCATCCCTTTATTGGCTGGAGAAATCAACTACTGTGTGGAGAG TTATTTGGGCAAAATTTTGACAACTGGGGAGGAAAAAAAACAAGAAATGCAC</pre>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_001753 unedited</p> <pre>ACCGCGGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTAAACGTTAAACATTTT TATTGTGCAGGCTTGTAACTTTACAGGACATGCATGATAAAAAATTGAAAATATATCA GTAAGCATATAAAATTTAGCAATCTTTTGGACCAGTAATTGATTTGCATGAGGGACTAA GCATCTATGTAGAACAGACATGTCTTGAATACACAGTTTACAGATTGAATCACAAAGCC ATTTCCCTAAGTGATTTTCTCATATAAAGATAAAAATATCTTTACATTTAAAAAGTATGC AGTATAGCACATTTTCAGTTATGTACACAGTTTAAAAGTAAAACCTATATCCATGCCAGTG TCTGTTTTAAATGCAAAAAGTCAAAGTAGGTAACAGGTTGGTAATTAAGTGTCAGGAAG ACTGGAAGAGGCAAAAATCAAGCAGAGTTCCAATAAGTGTATGAAAAAAAATCATAACT GAAGGTTTAAGAAAAGTCCCAAAGGCAGAATCACAATATGAGCAGGAGGAATAAAAAGC TTTTGGATATACCAGGCAGCTTTCTGTACGACTCAGGTTTACAGGTGAAATTCCTCAGTT TGAGTTTCAAGAAGATTTGAACTTATTCCAGCAAAATACTTCAATCTTTTAAAGTCTNTAC TGAGCANGGGTCANGTTGCAGCAACTCTGATAGGCTCACACAATGGCCTNCATTTTACA GCCCTCCTTGGNAGGCCACTGATCAGCTGAAATGGGAAACACATGNTGAGCCACTAAAC CACCCCGGTGATGGGATAGTTTGGATCAGGAAAGCGTGATTATTCTGAAAATAACGAGCT GAATAGACTGCTGACCTCATCANTGATGAGAGCAGGNAAGCTGCTTNCAGATGNCAGCC ACAGAGAGCTAGCCTATGGNNCCTTNNATCATTTCATGGGCTANGTCACCTCACACTACGA TAAGATGTGCGATGAGCCAAAGTGGACTACCAACTTTGTGCTAAGTCGAAACAGCTGAAA CTAGC</pre>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_001753
<b>Insert Size:</b>	2400 bp
<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	A TrueClone.
<b>Components:</b>	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\\_001753.3](#), [NP\\_001744.2](#)

**RefSeq Size:** 2704 bp

**RefSeq ORF:** 537 bp

**Locus ID:** 857

**UniProt ID:** [Q03135](#)

**Cytogenetics:** 7q31.2

**Domains:** Caveolin

**Protein Families:** Druggable Genome, Transmembrane

**Protein Pathways:** Focal adhesion, Viral myocarditis

**Gene Summary:** 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]

Transcript Variant: This variant (1) encodes the longer isoform (alpha).