

Product datasheet for **SC302995**

Caveolin 3 (CAV3) (NM_001234) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Caveolin 3 (CAV3) (NM_001234) Human Untagged Clone
Tag:	Tag Free
Symbol:	Caveolin 3
Synonyms:	LGMD1C; LQT9; MPDT; RMD2; VIP-21; VIP21
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for NM_001234 edited GATGATGGCAGAAGAGCACACAGATCTCGAGGCCAGATCGTCAAGGATATCCACTGCAA GGAGATTGACCTGGTGAACCGAGACCCCAAGAACATTAACGAGGACATAGTCAAGGTGGA TTTTGAAGACGTGATCGCAGAGCCTGTGGGCACCTACAGCTTTGACGGCGTGTGGAAGGT GAGCTACACCACCTTCACTGTCTCCAAGTACTGGTGTCTACCGTCTGTTGTCCACGCTGCT GGGCGTCCACTGGCCCTGCTCTGGGGCTTCTGTTCGCCTGCATCTCCTTCTGCCACAT CTGGGCGGTGGTCCATGCATTAAGAGCTACCTGATCGAGATCCAGTGCATCAGCCACAT CTACTCACTCTGCATCCGCACCTTCTGCAACCCACTCTTCGCGGCCCTGGGCCAGGTCTG CAGCAGCATCAAGGTGGTGTGCGGAAGGAGGTCTAAAGCCAGGTGGGGCAACAGCGGTG GCAGGGCAGGGGGTGGTGGCCAGACTGGTCCCCGGGGGACTTCTTACAGGGGCTGCTG GCGAGCTCTTTCTTTAGGGACTGCTCCATACCCCATGATGGAGCACACGGTGTAGGGA AGCCAGAAAGAAAAGACGGCCAGCC
Restriction Sites:	Please inquire
ACCN:	NM_001234
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:	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
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.

RefSeq: [NM_001234.3](#), [NP_001225.1](#)

RefSeq Size: 1329 bp

RefSeq ORF: 456 bp

Locus ID: 859

UniProt ID: [P56539](#)

Cytogenetics: 3p25.3

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Focal adhesion

Gene Summary: This gene encodes a caveolin family member, which functions as a component of the caveolae plasma membranes found in most cell types. Caveolin proteins are proposed to be scaffolding proteins for organizing and concentrating certain caveolin-interacting molecules. Mutations identified in this gene lead to interference with protein oligomerization or intracellular routing, disrupting caveolae formation and resulting in Limb-Girdle muscular dystrophy type-1C (LGMD-1C), hyperCKemia or rippling muscle disease (RMD). Alternative splicing has been identified for this locus, with inclusion or exclusion of a differentially spliced intron. In addition, transcripts utilize multiple polyA sites and contain two potential translation initiation sites. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (2) is shorter than variant 1, since it lacks a differentially spliced intron located in the 3' UTR, but both transcripts encode identical proteins. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.