

Product datasheet for **SC115176**

SACM1L (NM_014016) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SACM1L (NM_014016) Human Untagged Clone
Tag:	Tag Free
Symbol:	SACM1L
Synonyms:	SAC1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF: >NCBI ORF sequence for NM_014016, the custom clone sequence may differ by one or more nucleotides

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ATGGCGACGGCGCCTACGAGCAGCTGAAGCTGCATATCACACCTGAAAAATTTTATGTGGAAGCTTG
ATGATGGAGCAGATGACGTACTTACCATTGACCGTGTGTCCACAGAGGTTACCCTTGCAGTCAAGAAAGA
GTTTCTCCTTCAGCTGTCACAAGACCAATATTTGGTATACTGGGCACAATCCATCTGGTGGCAGGTAAT
TATCTTATAGTCATTACCAAAAAGATAAAAAGTAGGTGAATTTTTTTCAGTCATGTAGTCTGGAAGCAACAG
ATTTTGATGTCCTTTCTTATAAGAAGACAATGTTGCACTTAAGTATTCAGTTACAAGATAATAAAAC
CTTCTAGCGATGCTAAACCATGTCTTGAATGTGGATGGATTTTACTTTTCAACAACATATGATTTGACC
CATACTTTGCAGCGGCTATCCAACACTAGTCTGAATTCCAAGAAATGAGTCTCTTGGAAAGGCAGATC
AGCGGTTTGTATGGAATGGTCATCTTCTAAGAGAAGTCTTGCACAGCCAGAGGTTTCATCGGTTTGCCTT
TCCAGTGTACATGGCTTTATTACCATGCATTCATGTTCTATTAATGGAAAATACCTTTGATTGGATTCTC
ATCTCGAGGAGGAGCTGTTTCAGAGCTGGTGTGCGCTATTATGTAAGAGGAATTGATTCCGAAGGCCATG
CAGCTAACTTTGTAGAAACAGAACAAATTTGTCACACTACAATGGGAGCAAAGCTTCGTTTGTACAGACTCG
AGGATCAATACCTGTTTTCTGGTCCCAAAGACCAAACCTCAAGTACAAACCACTGCCACAGATCAGCAAA
GTAGCAAATCACATGGACGGTTTCCAAAGGCATTTTATTCCCAAGTAATTTTATGAAAAACAAGTTA
TAATCAATCTGATTAACCAGAAGGGCTCGGAGAAGCCACTTGAGCAGACATTTGCAACAATGGTGTCTTC
CTTGGGAAGTGAATGATGAGATACATTGCCTTTGACTTCCATAAGGAATGTAAAAATATGAGATGGGAT
CGACTAAGTATTTTATTGGATCAGGTAGCAGAAATGCAAGATGAATTAAGTTATTTTCTAGTGGACTCTG
CTGGCCAGGTGGTGGCAAACCAGGAAGGCGTGTCCGAAGCAATTGCATGGATTGTCTAGATAGAACCAA
TGTGATCCAGAGTTTGTAGCTCGTCTGACTCAGGCCAAGTTCAGAGACTAGGAGTTTTCATGTG
GGACAAAAGCTTGAAGAACAAGATGAATTTGAGAAGATTTACAAAAATGCCTGGGCTGCAACGCAATG
CTTGTGCCAAGCAATATGCGGGAAGTGGTGCCTTGAAGACTGACTTTACCAGAAGTGGAAAGAGAAGTCA
TTTGGGACTTATAATGGATGGCTGGAAGTCAATGATACGATATTATAAGAACAAGTTCCTGATGGATT
AGACAAGATTCATAGACTTATTTCTTGGAAACTATTCAGTGGATGAATTAGAATCTCATAGTCTTTAA
GTGTTCCAAGGGACTGGAATTCCTGGCTTTGCCTATTATCATGGTTGTTGCCTTTTCAATGTGCATTAT
CTGTTTGCCTTATGGCTGGTGCAGTGGACAGAAACACTGGCCTATGTGCTCTTCTGGGGAGTTGCAAGC
ATTGGAACATTTTTTATCATTCTTACAATGGCAAAGATTTTGTGATGCTCCAGACTGGTCCAGAAAG
AAAAGATAGACTGA
    
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_014016 unedited

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CATTTGTATACGACTCACTATAGGCGGCCGGAATTCGCACGAGGAGGATGGCGACGGCG
GCCTACGAGCAGCTGAAGCTGCATATCACACCTGAAAAATTTTATGTGGAAGCTTGAT
GATGGAGCAGATGACGTACTTACCATTGACCGTGTGTCCACAGAGGTTACCCTTGCAGTC
AAGAAAGATGTTTCTCCTTCAGCTGTACAAGACCAATATTTGGTATACTGGGCACAATC
CATCTGGTGGCAGGTAATTATCTTATAGTCATTACCAAAAAGATAAAAAGTAGGTGAATTT
TTCAGTCATGTAGTCTGGAAGCAACAGATTTTGTGTCCTTTCTTATAAGAAGACAATG
TTGCACTTAAGTATTCAGTTACAAGATAATAAAACCTTCTAGCGATGCTAAACCAT
GTCTTGAATGTGGATGGATTTTACTTTTCAACAACATATGATTTGACCCATACTTTGCAG
CGGCTATCCAACACTAGTCTGAATTCCAAGAAATGAGTCTTGGAAAGGCAGATCAG
CGGTTTGTATGGAATGGTCATCTTCTAAGAGAAGTCTTGCACAGCCGGAGGTTTCATCGG
TTTGCCCTTCCAGTGTACATGGCTTTATTACCATGCATTCATGTTCTATTAATGGAAA
TACTTTGATTGGATTCTCATCTCGAGGAGGAGCTTTTTCAGAGCTGGTGTGCGCTATTAT
GTAAAGAAGAAATTGATTCCGAAGGCCATGCAGCTAACTTTGTAGAACAGAACAAATGTGCA
CTCAATGGGGAGCAAGCTTCGTTTGTACAGACTCCGAGATCAATACCTGTTTTCTGCTG
CCAAAGACCAACCTCAGTACAAACCC
    
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Restriction Sites:

NotI-NotI

ACCN:

NM_014016

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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_014016.2](#), [NP_054735.2](#)

RefSeq Size: 3550 bp

RefSeq ORF: 1764 bp

Locus ID: 22908

UniProt ID: [Q9NTJ5](#)

Cytogenetics: 3p21.31

Domains: Syja_N

Protein Families: Druggable Genome, Transmembrane

Gene Summary:

This gene encodes an integral membrane protein, which is localized to the endoplasmic reticulum, and functions as a phosphoinositide phosphatase that hydrolyzes phosphatidylinositol 3-phosphate, phosphatidylinositol 4-phosphate, and phosphatidylinositol 3,5-bisphosphate. Deletion of this gene in mouse results in preimplantation lethality. Other studies suggest that this gene is also involved in the organization of golgi membranes and mitotic spindles. Alternatively spliced transcript variants have been found for this gene. A C-terminally extended isoform is also predicted to be produced by the use of an alternative in-frame, downstream translation termination codon via a stop codon readthrough mechanism.[provided by RefSeq, Dec 2017]

Transcript Variant: This variant (1) represents the predominant transcript and encodes two isoforms, which result from the use of alternative in-frame translation termination codons. The shorter isoform (1) results from translation termination at the upstream UGA stop codon, while the longer isoform (1x) results from UGA stop codon readthrough to the downstream UGA termination codon. This RefSeq represents the shorter isoform (1).