

## Product datasheet for **MC219440**

### **Sacm1l (NM\_030692) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Sacm1l (NM_030692) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Sacm1l
Synonyms:	mKIAA0851; SA; SAC1; Sac1p
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC219440 representing NM\_030692  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCGGCCGCAGCCTACGAGCATCTGAAGCTGCATATTACACCTGAAAAGTTTTATGTGGAGGCTTG  
 ATGATGGAGCAGATGATGTAATCATCATTGACCGAGTGTCCACAGAGGTACCCTTGCAGTCAAAAAAGA  
 TGTCCCCCTCTGCTGTTACAAGACCAATATTTGGGATACTGGGCACAATCCATCTGGTGGCAGGTAAT  
 TATCTTGTGTCATACCAAAAAAGATGAAAGTAGGTGAATGTTTTAATCATGCGGTCTGGAGAGCCACAG  
 ATTTTGTGTTCTTTCTATAAGAAGACAATGTTGCACCTGACTGATTCAGTTACAAGATAATAAAAC  
 TTTCTAGCAATGCTAAACCATGTCTTGAGTATGGATGGATTTTACTTTTCAACAACATATGACTTGACT  
 CATACTTTCAGCGACTATCTAACACGAGTCCAGAATTCAGAAATGAGTCTCTAGAAAGGCGAGATC  
 AGCGGTTTGTATGGAACGGGCATCTGCTCAGGGAAGTGTCTGCTCAGCCAGAGGTCCATCGGTTTGTCT  
 TCCAGTGTTCATGGCTTTATTACTATGCACTCATGTTCTATTAATGGAAAATTTTTGATTGGATTCTC  
 ATCTCCCGAAGGAGTTGTTTCAGAGCTGGTGTTCGTTATTATGTGAGAGGAATTGATTCTGAAGGCCAGG  
 CAGCTAATTTGTAGAAAACAGAGCAGATTGTGCACTACAGCGGGAACAGGGCTTCGTTTGTCCAGACTCG  
 AGGATCAATACCTATTTTCTGGTCACAGAGACCAATCTAAAGTACAAACCACATCCACAGATCAGCAAA  
 GTAGCAATCACATGGATGGTTTCCAGAGGCATTTTGATTCACAAGTAATTTTATGAAAAGCAAGTAA  
 TAATTAATCTGGTGAACCACAAGGGATCAGAGAAAACACTTGAGCAAACATTCGCAAACATGGTGTCTC  
 CTTGGGAAGTGGGATGATCAGATATATTGCCTTGACTTCCATAAGGAGTGTAATAATTTTATGAGATGGGAT  
 CGATTGAGTATTTTATTGGATCAAGTAGCAGAAATGCAGGATGAATTAAGTTATTTTTTAGTAGACTCTG  
 CCGGCAAGGTGGTGACAAACCAGGACGGAGTTTTCCGCAGCAACTGCATGGATTGTCTAGACAGAACGAA  
 TGTGATACAGAGTTTATTAGCTCGACGTTCCCTTCAGGCACAGCTGCAGAGGCTAGGAGTTTTGCATGTG  
 GGACAGAAGCTTGAAGAGCAAGATGAATTTGAGAAGACTTACAAAAATGCCTGGGCCGATAATGCTAATG  
 CTTGTGCCAAACAGTATGCGGGAACCGGTGCCTTGAAGACTGACTTTACAAGAACTGAAAAAAGAACTCA  
 GTTGGGACTATTAATGGATGGCTTCAACTCATTATTACGGTATTACAAGAACAACTTTTCTGATGGATTT  
 AGACAAGATCCATAGACTTATTTCTTGGAAATATTTCAGTGGATGAATTAGAATCTCATAGCCCTTTAA  
 GTGTTCCAAGGGACTGAAAATTCCTGGCGTTGCCTATCATCATGGTTGTTGCCTTTTCAATGTGCATCAT  
 CTGTTTGCTTATGGCTGGTGACACTTGGACAGAAACACTGGCATATGTCCTCTTCTGGGGAGTTGCAAGC  
 ATTGGAACATTTTTTATTATTCTTTACAATGGCAAAGATTTTGTGATGCTCCAGACTGGTCCAGAAAG  
 AAAAGATAGACTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_030692  
**Insert Size:** 1764 bp

**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](mailto: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\\_030692.4](#), [NP\\_109617.1](#)

**RefSeq Size:** 3433 bp

**RefSeq ORF:** 1764 bp

**Locus ID:** 83493

**UniProt ID:** [Q9EP69](#)

**Cytogenetics:** 9 74.08 cM

**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. Two isoforms are predicted to be produced from the same mRNA by the use of alternative in-frame translation termination codons 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).