

## Product datasheet for **RN208191**

### **Sacm1l (NM\_053798) Rat Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Sacm1l (NM_053798) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Sacm1l
Synonyms:	Sac1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >RN208191 representing NM\_053798  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGC**C

ATGGCGGCCACAGCCTACGAGCATCTGAAGCTGCATATTACACCTGAAAAGTTTTATGTGGAAGCTTG  
 ATGATGGAGCAGATGATGTACTCATCTTGACCGGTGTCTACAGAGGTACCCTTGCAGTCAAAAAGA  
 TGTTCCCTTCTGCTGTTACAAGACCAATATATGGGATAATGGGCACAATCCATCTGGTGGCAGGCAAT  
 TATCTTGTGTCATTACCAAAAAGATGAAAGTAGGTGAATTTTTAATCATGTAATCTGGAAAGCCACAG  
 ATTTTGTGTTCTTTCTATAAGAAGACAATGTTACACTTAAGTATTCAGTTACAAGATAATAAAAC  
 TTTCTAGCAATGCTAAACCATGTCTTGAGTACGGATGGATTTACTTTTCAACAACATATGACTTGACC  
 CATACTTTGCAACGGCTATCTAACACGAGTCCAGAATCCAAGAAATGAGTCTCTAGAAAGGCGAGATC  
 AGCGGTTTGTATGGAACGGGCATCTGCTCAGAGAACTGTCTGCTCAGCCAGAGGTCCATCGGTTTGTCT  
 TCCTGTGTGCATGGCTTTATTACTATGCATTCATGTTCTATTAACGGGAAATTTTTGATTGGATTCTC  
 ATCTCCCGGAGGAGTTGTTTCAGAGCCGGTGTGCGTTATTATGTGAGAGGAATTGATTCTGAAGGCCAGG  
 CAGCTAATTTGTAGAAACAGAACAGATTGTGCACTACAGTGGGAACAGGGCTTCATTTGTACAGACTCG  
 AGGATCAATACCTGTTTTCTGGTCACAAAGACCAATCTAAAGTACAAACCAGATCCACAGATCAACAAA  
 GTAGCAATCACATGGATGGTTTCCAAAGGCATTTTGATTCACAAGTAATTTTATGAAAAACAAGTAA  
 TAATTAATCTGGTGAACCATAAGGGATCAGAGAAACCCTTGAGCAAACATTTGCAAAAATGGTGCATC  
 CTTGGGAAGTGGGATGATCAGATATATTCCTTTGACTTCCATAAGGAGTGTAAAAATATGAGATGGGAT  
 CGACTGAGTATTTTATTGGATCAAGTAGCAGAAATGCAGGATGAATTAAGTTATTTTTAGTAGACTCTG  
 CTGGCAAGGTGGTGACAAACCAGGAAGGAGTTTTCCGCAGCAACTGTATGGATTGTCTAGACAGAACGAA  
 TGTGATACAGAGTTTATTAGCTCGGCGTTCCCTTCAGGCACAGCTGCAGAGACTAGGAGTTTTGCATGTG  
 GGACAAAAGCTTGAAGAACAAGATGAGTTTGAAGAAGTTTACAAAATGCCTGGGCCGATAATGCTAATG  
 CTTGTGCCAAACAGTATGCAGGAACCGGTGCCTTGAAGACTGACTTTACAAGAAGTGGAAAAAGAACTCA  
 GTTGGGACTGGTAAATGGATGGCTTCAACTCATTATTACGGTACTACAAGAACAACTTTTCTGATGGATT  
 AGACAAGATTCTATAGACTTATTTCTGGAAACTACTCAGTGGATGAATTAGACTCTCACAGTCTTTAA  
 GTGTTCCAAGGACTGAAAATCCTGGCGTTGCCTATCATCATGGTTGTTGCCTTTTCAATGTGCATCAT  
 CTGTTTGTATGGCTGGTGACACTTGGACAGAAACACTGGCATATGCCTCTTCTGGGGAGTTGCAAGC  
 ATTGGAACATTTTTTATTATTCTTTACAATGGCAAAGATTTTGTGATGCTCCAGACTTGTACAGAAAG  
 AAAAGATAGACTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_053798
- Insert Size:** 1764 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).
- 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\\_053798.2](#), [NP\\_446250.1](#)

**RefSeq Size:** 3370 bp

**RefSeq ORF:** 1764 bp

**Locus ID:** 116482

**UniProt ID:** [Q9ES21](#)

**Cytogenetics:** 8q32

**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). COMPLETENESS: complete on the 3' end.