

## Product datasheet for **RR208191**

### **Sacm1l (NM\_053798) Rat Tagged ORF Clone**

#### **Product data:**

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



[View online »](#)

**ORF Nucleotide Sequence:**

>RR208191 representing NM\_053798  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCGGCCACAGCCTACGAGCATCTGAAGCTGCATATTACACCTGAAAAGTTTTATGTGGAAGCTTG  
 ATGATGGAGCAGATGATGTAATCATCATTGACCGGTGTCTACAGAGGTACCCCTTGCAGTCAAAAAAGA  
 TGTTCCCTTCTGCTGTTACAAGACCAATATATGGGATAATGGGCACAATCCATCTGGTGGCAGGCAAT  
 TATCTTGTGTCATTACAAAAAGATGAAAGTAGGTGAATTTTTAATCATGTAATCTGGAAAGCCACAG  
 ATTTTGTGTTCTTTCTATAAGAAGACAATGTTACACTTAAGTATTCAGTTACAAGATAATAAAAC  
 TTTCTAGCAATGCTAACCATGTCTTGAGTACGGATGGATTTACTTTTCAACAACATATGACTTGACC  
 CATACTTTGCAACGGCTATCTAACACGAGTCCAGAATCCAAGAAATGAGTCTCTAGAAAGGCGAGATC  
 AGCGGTTTGTATGGAACGGGCATCTGCTCAGAGAACTGTCTGCTCAGCCAGAGGTCCATCGGTTTGTCT  
 TCCTGTGTGCATGGCTTTATTACTATGCATTCATGTTCTATTAACGGGAAATATTTTGATTGGATTCTC  
 ATCTCCCGGAGGAGTTGTTTCAGAGCCGGTGTGCGTTATTATGTGAGAGGAATGATTCTGAAGGCCACG  
 CAGCTAATTTGTAGAAACAGAACAGATTGTGCACTACAGTGGGAACAGGGCTTCATTTGTACAGACTCG  
 AGGATCAATACCTGTTTTCTGGTCACAAAGACCAATCTAAAGTACAAACCAGATCCACAGATCAACAAA  
 GTAGCAATCACATGGATGGTTTCCAAAGGCATTTTGATTACAAGTAATTTTATGAAAAACAAGTAA  
 TAATTAATCTGGTGAACCATAAAGGATCAGAGAAACCCTTGAGCAAACATTTGCAAAAAATGGTGCATC  
 CTTGGGAAGTGGGATGATCAGATATATTGCCTTGACTCCATAAGGAGTGTAAAAATATGAGATGGGAT  
 CGACTGAGTATTTATTGGATCAAGTAGCAGAAATGCAGGATGAATTAAGTTATTTTTAGTAGACTCTG  
 CTGGCAAGGTGGTGACAAACCAGGAAGGAGTTTTCCGCAGCAACTGTATGGATTGTCTAGACAGAACGAA  
 TGTGATACAGAGTTTATTAGCTCGGCTTCCCTTCAGGCACAGCTGCAGAGACTAGGAGTTTTGCATGTG  
 GGACAAAAGCTTGAAGAACAAGATGAGTTTGAAGAAGTTTACAAAAATGCCTGGGCCGATAATGCTAATG  
 CTTGTGCCAAACAGTATGCAGGAACCGGTGCCTTGAAGACTGACTTTACAAGAACTGAAAAAAGAACTCA  
 GTTGGGACTGGTAAATGGATGGCTTCAACTCATTATTACGGTACTACAAGAACAACTTTTCTGATGGATT  
 AGACAAGATTCTATAGACTTATTTCTTGGAACTACTCAGTGGATGAATTAGACTCTCACAGTCTTTAA  
 GTGTTCCAAGGACTGAAAATCCTGGCGTTGCCTATCATCATGGTTGTTGCCTTTTCAATGTGCATCAT  
 CTGTTTGTATGGCTGGTGACACTGGACAGAAACACTGGCATATGCCTCTTCTGGGAGTTGCAAGC  
 ATTGGAACATTTTTATTATTCTTTACAATGGCAAAGATTTTGTGATGCTCCAGACTGTACAGAAAG  
 AAAAGATAGACAAAAGATAGAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR208191 representing NM\_053798  
 Red=Cloning site Green=Tags(s)

MAATAYEHLKLHITPEKFYVEACDDGADDVLIIDRVSTEVTLAVKKDVPPSAVTRPIYIGIMGTIHLVAGN  
 YLVVITKMKVGEFFNHVIWKATDFDVL SYKKTMLHLTDIQLQDNKTF LAMLNHVLSTDFYFSTTYDLT  
 HTLQRLSNTSPEFQEMSLERADQRFVWNGHLLRELSAQPEVHRFALPVLHGFITMHS CSINGKYFDWIL  
 ISRRSCFRAGVRYVYVRGIDSEGHAANFVETEQIVHYSGNRASVQTRGSI PVFWSQRPNLKYKPDQPINK  
 VANHMDGFQRHFD SQVIIYGKQVIINLVNHKGSEKPLEQTF AKMVSSLGSGMIRYIAFDHFKECKNMRWD  
 RLSILLDQVAEMQDEL SYFLVDSAGKVVTNQE GVFRSN CMDCLDRTNVIQSLLARRSLQAQLQRLGVLHV  
 GQKLEEQDEFEKIYKNAWADNANACAKQYAGTGALKTDFTRTGKRTQLGLVMDGFNSLLRYKNNFSDGF  
 RQDSIDLFLGNYSVDELDSHSPLSVPRDWKFLALPIIMVVAFSMCIICLLMAGDWTETLAVYLVFWGVAS  
 IGTFFIILYNGKDFVDAPRLVQKEKIDKR\*

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/ja1576\\_e03.zip](https://cdn.origene.com/chromatograms/ja1576_e03.zip)

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM\_053798

ORF Size: 1761 bp

OTI Disclaimer: 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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

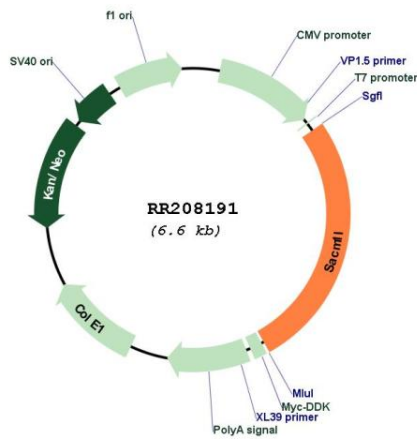
RefSeq ORF: 1764 bp

Locus ID: 116482

UniProt ID: [Q9ES21](#)  
 Cytogenetics: 8q32  
 MW: 67 kDa

**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]

**Product images:**



Circular map for RR208191