

Product datasheet for **MR224002**

Sacm1l (NM_030692) Mouse Tagged ORF Clone

Product data:

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



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ORF Nucleotide Sequence:

>MR224002 representing NM_030692
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGGCCGAGCCTACGAGCATCTGAAGCTGCATATTACACCTGAAAAGTTTTATGTGGAGGCTTG
 ATGATGGAGCAGATGATGACTCATCTTACCGAGTGTCCACAGAGGTACCCTTGCAGTCAAAAAAGA
 TGTCCCCCTCTGCTGTTACAAGACCAATATTTGGGATACTGGGCACAATCCATCTGGTGGCAGGTAAT
 TATCTTGTGTATCACCAAAAAGATGAAAGTAGGTGAATGTTTTAATCATGCGGTCTGGAGAGCCACAG
 ATTTTGTGTTCTTTCTATAAGAAGACAATGTTGCATTGACTGATTCAGTTACAAGATAATAAAAC
 TTTCTAGCAATGCTAAACCATGCTTGAGTATGGATGGATTTTACTTTTCAACAACATATGACTTGACT
 CATACTTGCAGCGACTATCTAACACGAGTCCAGAATCCAAGAAATGAGTCTCTAGAAAGGCGAGATC
 AGCGGTTTGTATGGAACGGGCATCTGCTCAGGGAAGTCTGCTCAGCCAGAGGTCCATCGGTTTGTCT
 TCCAGTGTGCATGGCTTTATTACTATGCACTCATGTTCTATTAATGGAAAATTTTTGATTGGATTCTC
 ATCTCCGAAGGAGTTGTTTCAGAGCTGGTGTTCGTTATTATGTGAGAGGAATTGATTCTGAAGGCCAGG
 CAGCTAATTTGTAGAAAACAGAGCAGATTGTGCACTACAGCGGGAACAGGGCTTCGTTTGTCCAGACTCG
 AGGATCAATACCTATTTTCTGGTCACAGAGACCAATCTAAAGTACAAACCACATCCACAGATCAGCAAA
 GTAGCAATCACATGGATGGTTTCCAGAGGCATTTTGATTACAAGTAATTTTATGAAAAGCAAGTAA
 TAATTAATCTGGTGAACCACAAGGGATCAGAGAAAACACTTGAGCAAACATTCGCAAACATGGTGTCTC
 CTTGGGAAGTGGGATGATCAGATATATTGCCTTGACTCCATAAGGAGTGTAAAAATATGAGATGGGAT
 CGATTGAGTATTTTATTGGATCAAGTAGCAGAAATGCAGGATGAATTAAGTTATTTTTTAGTAGACTCG
 CCGGCAAGGTGGTGACAAAACAGGACGGAGTTTTCCGCAGCAACTGCATGGATTGTCTAGACAGAACGAA
 TGTGATACAGAGTTTATTAGCTCGACGTTCCCTTCAGGCACAGCTGCAGAGGCTAGGAGTTTTGCATGTG
 GGACAGAAAGCTTGAAGAGCAAGATGAATTTGAGAAGACTTACAAAAATGCCTGGGCCGATAATGCTAATG
 CTTGTGCCAAACAGTATGCGGGAACCGGTGCCTTGAAGACTGACTTTACAAGAACTGAAAAAGAAGTCA
 GTTGGGACTATTAATGGATGGCTTCAACTCATTATTACGGTATTACAAGAACAACTTTTCTGATGGATT
 AGACAAGATCCATAGACTTATTTCTTGGAAATATTTCAGTGGATGAATTAGAATCTCATAGCCCTTTAA
 GTGTTCCAAGGACTGAAAATCCTGGCGTTGCCTATCATCATGGTTGTTGCCTTTTCAATGTGCATCAT
 CTGTTTGTATGGCTGGTGACACTTGGACAGAAACACTGGCATATGCCTCTTCTGGGAGTTGCAAGC
 ATTGGAACATTTTTTATTATTCTTTACAATGGCAAAGATTTTGTGATGCTCCAGACTGGTCCAGAAAG
 AAAAGATAGAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR224002 representing NM_030692
 Red=Cloning site Green=Tags(s)

MAAAAYEHLKLHITPEKFYVEACDDGADDVLIIDRVSTEVTLAVKKDVPPSAVTRPIFGILGTIHLVAGN
 YLVVITKMKVGEFCFNHAVWRATDFDVL SYKKTMLHLTDIQLQDNKTF LAMLNHVL SMDGFYFSTTYDLT
 HTLQRLSNTSPEFQEMSLERADQRFVWNGHLLREL SAQPEVHRFALPVLHGFITMHS CSINGKYFDWIL
 ISRRSCFRAGVRYVYVRGIDSEGHAANFVETEQIVHYSGNRASVQTRGSIPIFWSQRPNLKYKPHPQISK
 VANHMDGFQRHFD SQVIIYGKQVIINLVNHKGSEKPLEQTFANMVSSLGSGMIRYIAFDHFHKECKNMRWD
 RLSILLDQVAEMQDEL SYFLVDSAGKVVTNQDGVFRSNCMDCLDRTNVIQSLLARRSLQAQLQRLGVLHV
 GQKLEEQDEFEKTYKNAWADNANACAKQYAGTGALKTDFTRTGKRTQLGLLMDGFNSLLRYKNNFSDGF
 RQDSIDLFLGNYSVDELESHSPLSVPRDWKFLALPIIMVVAFSMCIICLLMAGDWTWETLAVYLVFWGVAS
 IGTFFIILYNGKDFVDAPRLVQKEKID

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9014_h01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_030692

ORF Size: 1761 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 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](#)

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_030692.5](#)

RefSeq Size: 3433 bp

RefSeq ORF: 1764 bp

Locus ID: 83493

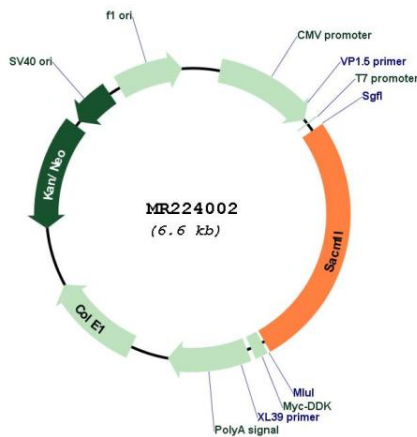
UniProt ID: [Q9EP69](#)

Cytogenetics: 9 74.08 cM

MW: 67.4 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 MR224002