

Product datasheet for **RG201684**

SACM1L (NM_014016) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SACM1L (NM_014016) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SACM1L
Synonyms:	SAC1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG201684 representing NM_014016
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGACGGCGCCTACGAGCAGCTGAAGCTGCATATCACACCTGAAAAATTTATGTGGAAGCTTGTG
 ATGATGGAGCAGATGACGTACTTACCATTGACCGTGTGTCCACAGAGGTTACCTTGCAGTCAAGAAAGA
 TGTTCCTCCTTCAGCTGTCACAAGACCAATATTTGGTATACTGGGCACAATCCATCTGGTGGCAGGTAAT
 TATCTTATAGTCATTACCAAAAAGATAAAAGTAGGTGAATTTTTCAGTCATGTAGTCTGGAAGCAACAG
 ATTTTGTATGTCCTTTCTTATAAGAAGACAATGTTGCACTTAAGTATTCAGTTACAAGATAATAAAAC
 CTTCTAGCGATGCTAAACCATGCTTGAATGTGGATGGATTTTACTTTTCAACAACATATGATTGACC
 CATACTTTGCAGCGCTATCCAACACTAGTCTGAATTCAGAAATGAGTCTCTGGAAAGGCGAGATC
 AGCGGTTTGTATGGAATGGTCATCTTCTAAGAGAACTTTCTGCACAGCCAGAGGTTATCGGTTTGCCT
 TCCAGTGTACATGGCTTTATTACCATGCATTCATGTTCTATTAATGGAAAATCTTTGATTGGATTCTC
 ATCTCGAGGAGGAGCTGTTTCAGAGCTGGTGTGCGCTATTATGTAAGAGGAATTGATTCCGAAAGGCCATG
 CAGCTAACTTTGTAGAAACAGAACAAATTTGTGCACTACAATGGGAGCAAGCTTCGTTTGTACAGACTCG
 AGGATCAATACCTGTTTTCTGGTCCCAAAGACCAACCTCAAGTACAAACCACTGCCACAGATCAGCAAA
 GTAGCAATCACATGGACGGTTTCCAAAGGCATTTTATTCCCAAGTAATTTATTTATGGAACAAGTTA
 TAATCAATCTGATTAACCAGAAGGGCTCGGAGAAGCCACTTGAGCAGACATTTGCAACAATGGTGTCTTC
 CTTGGGAAGTGAATGATGAGATACATTGCCTTTGACTTCCATAAGGAATGTAATAATATGAGATGGGAT
 CGACTAAGTATTTTATTGGATCAGGTAGCAGAAATGCAAGATGAATTAAGTTATTTCTAGTGGACTCTG
 CTGGCCAGGTGGTGGCAAACCAGGAAGCGGTGTTCCGAAGCAATTGCATGGATTGCTAGATAGAACC
 TGTGATCCAGAGTTTGTAGCTCGTTCGTTCACTTCAGGCCCACTTCAGAGACTAGGAGTTTGCATGTG
 GGACAAAAGCTTGAAGAACAAGATGAATTTGAGAAGATTTTCAAAAATGCCTGGGCTGACAACGCAATG
 CTTGTGCCAAGCAATATGCGGGAAGTGGTGCCTTGAAGACTGACTTTACCAGAAGTGAAGAGAACTCA
 TTTGGGACTTATAATGGATGGCTGGAACCAATGATACGATATTATAAGAACAACTTTCCGATGGATT
 AGACAAGATTCATAGACTTATTTCTTGGAACTATTAGTGGATGAATTAGAATCTCATAGTCTTTAA
 GTGTTCCAAGGACTGGAATTCCTGGCTTGCCTATTATCATGGTTGTTGCCTTTTCAATGTGCATTAT
 CTGTTTGTATGGCTGGTGACACTGGACAGAAACACTGGCCTATGTGCTCTTCTGGGAGTTGCAAGC
 ATTGGAACATTTTTATCATTCTTTACAATGGCAAAGATTTTGTGATGCTCCAGACTGGTCCAGAAAG
 AAAAGATAGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG201684 representing NM_014016
 Red=Cloning site Green=Tags(s)

MATAAYEQLKLHITPEKFYVEACDDGADDVLTIDRVSTEVTLAVKKDVPPSAVTRPIFGILGTIHLVAGN
 YLIVITKKIKVGEFFSHVWKATDFDVL SYKKTMLHLTDIQLQDNKTF LAMLNHVLNVDGFYFSTTYDLT
 HTLQRLSNTSPEFQEMSLERADQRFVWNGHLLREL SAQPEVHRFALPVLHGFITMHSCSINGKYFDWIL
 ISRRSCFRAGVRYVVRGIDSEGHAANFVETE QIVHYNGSKASFVQTRGSIPVFWSQLRPNLKYKPLPQISK
 VANHMDGFQRHFD SQVVIYGKQVIINL INQKGSEKPLEQTFATMVSSLGSGMMRYIAFDHFHKECKNMRWD
 RLSILLDQVAEMQDELSYFLVDSAGQV VV ANQEGVFRSNCMDCLDR TNVIQSLLARRSLQAQLQRLGVLHV
 GQKLEEQDEFEKIFKNAWADNANACAKQYAGTGALKTDFTRTGKRTHLGLIMDGWNSMIRYYKNNFSDGF
 RQDSIDLFLGNYSVDELESHSPLSVPRDWKFLALPIIMVAFSMCIICLLMAGDTWTETLAVVLFWGVAS
 IGTFIILYNGKDFVDAPRLVQKEKID

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_014016

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.

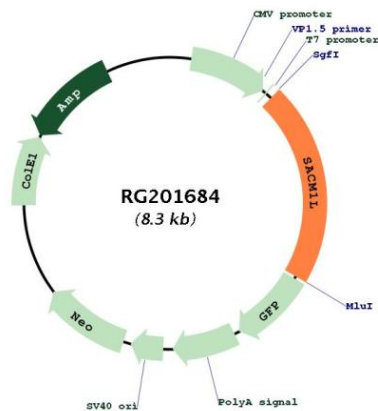
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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:	<u>NM_014016.2, NP_054735.2</u>
RefSeq Size:	3550 bp
RefSeq ORF:	1764 bp
Locus ID:	22908
UniProt ID:	<u>Q9NTJ5</u>
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]

Product images:



Circular map for RG201684