

Product datasheet for **MC228644**

Sgsm1 (NM_001254731) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sgsm1 (NM_001254731) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Sgsm1
Synonyms:	2410098H20Rik; AA408781; D5Bwg1524e; E130107M15; NulP; Rutbc2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC228644 representing NM_001254731
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTTCGGTCCCTGCGGAGGCCGAGACCCGCCAGAGGCTGCTGCGCACTGTGAAGAAGGAGGTGAAGC
 AGATCATGGAAGAAGCCGTTACCAGAAAAGTTCGTCCACGAGGACAGCAGCCACATCATCTCCTTCTGTGC
 GGCCGTGGAGGCCTGCGTGTGCACGGGCTGCGCGGAGGGCGGCCGGCTTCTCGCAAGCAACAAGATC
 GCGGCGCTCTTCATGAAGGTGGCAAGGCTTCCCTCCGGCCGAGGAGCTGAGCCGAAGGTCCAGGAAC
 TGGAGCAACTCATTGAGAGCGCGCAAACCAGATCCAGGGCCTGCAAGAGAACGTGCGGAAGCTGCCGAA
 GCTGCCTAACCTGTCCCGCTGGCCATCAAGCACCTGTGGATCCGCACCGCCCTGTTGAGAGGGTCTGT
 GACAAAATCGTCCACTACCTGGTGGAAAACAGCAGTAAATACTACGAGAAGGAGGCACTCTTGATGGACC
 CGGTGGACGGACCCATCCTGGCCTTTTGTGGTGGGGCCATGTGCCCTGGAGTATACCAAGATGAAGAC
 TGCAGATCACTTCTGGACTGACCCCTCAGCCGACGAGCTGGTCCAGAGACACCGGATCCACAGCTCACAT
 CTGAGACAGGACTCGCCACCAAGCGGCCAGCGCTCTGTATCCAGAAGAGGCATTCCAGTGGCAGCATGG
 ACGACCGGCCATCTATCTGCCCAGGACTATGTAGAATCTCTGCACCAGAACTCCAGGGCCACCCTGCT
 CTATGGAAGAACAATGTTCTGGTTTCAGCAAGGGATGACATGGAGGCCGTGCCAGGGTACCTGTCTCTG
 CACCAGACAGCGGATGTCATGACCTTGAAGTGGACACCAATCAGCTGATGAACGGGTCTGTGGGGGATC
 TGGACTACGAGAAGAGTGTCTACTGGGACTACGCTGTGACCATCCGCTTAGAGGAGATAGTTTACCTGCA
 CTGCCATCAACAAGTGGACAGCGCGGGACTGTCTGTGGTGGAGCCAGGATGGAATCCAGAGGCCACCC
 TTCCGCTTCCCAAGGGCGGGCACCTGCTACAGTTCCTCTCCTGTCTGGAGAATGGGCTGCTTCCGCAGC
 GGACAGTGGACCGCCGCTTTGGTACAGCGAGGAAAGGGGAAGTATTTCCCTAAGTTGCGCAAGCGCAG
 CCCACAGGGGTCCCTCCGAGTCCACGTCTTCAGACAAGGAGGACGACGAAGCCACGGATTACGTGTTCCGC
 ATCATCTACCCTGGCACGCAGTCTGAATTCGTGCCCCAGGACCTAATGGATGTCTCTATGAACAACCTTC
 CACCCCTATGGCAACCCAGTCCCTCGGAAGTCTCCTGCTCTTCTGTTTCAAAAGCGGCTCAGTGACGG
 CGGCTCAACCAATGGCTGTAACCATGAGAGGGCCCACTGAAACTGCTGTGTGATAACATGAAGTACCAG
 ATCCTCTCCAGAGCCTTCTATGGATGGCTCGCCTACTGCAGACACCTGTCCACCGTGAGGACCCACCTGT
 CAGCCCTGGTCAATCACATGATCGTGTCTCCAGACCTGCCCTGTGACGCTGGGCAAGGGTTGACAGCCAG
 CATCTGGGAAAAATACATCCAGGACAGCAGCAGCTACCCGGAGCAGGAGCTGCTGCGTCTCATCTACTAT
 GGAGGTGTCCAGCCTGAGATCCGCAGGGCAGTGTGGCCCTTCTCCTCGGCCACTACCAGTTTGGGATGA
 CAGAGATGGAGAGGAAAGAGGTAGACGAACAGATCCATGCTGCTACGCACAAACCATGTGCGGAGTGGCT
 GGGCTGTGAAGCTATCGTGAGACAGAGGGAGCGGGAGTCCCACGCGGCTGCCCTGGCCAAGTGTCTTTCA
 GGAGCCAGCCTGGACAGCCACCTTACCAGGATGCTGCACCGGGACTCCACCATCAGCAATGAGTCATCCC
 AGAGCTGCAGCTCAGGCCCCAGAACCTCCGACTGCAGAGCGACTCCAGCAGCAGCACACAGGTGACTTT
CTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: NM_001254731

Insert Size: 2034 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).

OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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:	<ol style="list-style-type: none">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_001254731.1</u> , <u>NP_001241660.1</u>
RefSeq Size:	2335 bp
RefSeq ORF:	2034 bp
Locus ID:	52850
Cytogenetics:	5 55.45 cM
Gene Summary:	<p>Interacts with numerous Rab family members, functioning as Rab effector for some, and as GTPase activator for others. Promotes GTP hydrolysis by RAB34 and RAB36. Probably functions as GTPase effector with RAB9A and RAB9B; does not stimulate GTP hydrolysis with RAB9A and RAB9B.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (5) differs in the 3' UTR and has multiple coding region differences, compared to variant 1, one of which results in a frameshift. The resulting protein (isoform c) has a distinct C-terminus and is shorter than isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>