

Product datasheet for **MC223510**

Sgsm1 (NM_172718) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sgsm1 (NM_172718) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Sgsm1
Synonyms:	2410098H20Rik; AA408781; D5Bwg1524e; E130107M15; NulP; Rutbc2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC223510 representing NM_172718 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTTCGGTCCCTGCGGAGGCCGAGACCCGCCAGAGGCTGCTGCGCACTGTGAAGAAGGAGGTGAAGC
AGATCATGGAAGAAGCCGTTACCAGAAAGTTCGTCCACGAGGACAGCAGCCACATCATCTCTTCTGTGC
GGCCGTGGAGGCCTGCGTGTGCACGGGCTGCGCGGAGGGCGGCCGGCTTCTGCGAAGCAACAAGATC
GCGGCGCTCTTCATGAAGGTGGCAAAGGCTTCCCTCCGGCCGAGGAGCTGAGCCGCAAGGTCCAGGAAC
TGGAGCAACTCATTGAGAGCGCGCGAAACCAGATCCAGGGCCTGCAAGAGAACGTGCGGAAGCTGCCGAA
GCTGCCTAACCTGTCCCCGCTGGCCATCAAGCACCTGTGGATCCGCACCGCCCTGTTGAGAGGGTCCCTG
GACAAAATCGTCCACTACCTGGTGGAAAACAGCAGTAAATACTACGAGAAGGAGGCACTCTTGATGGACC
CGGTGGACGGACCCATCCTGGCCTCTTTGTTGGTGGGGCCATGTGCCCTGGAGTATACCAAGATGAAGAC
TGCAGATCACTTCTGGACTGACCCCTCAGCCGACGAGCTGGTCCAGAGACACCGGATCCACAGCTCACAT
CTGAGACAGGACTCGCCACCAAGCGGCCAGCGCTCTGTATCCAGAAGAGGCATTCCAGTGGCAGCATGG
ACGACCGGCCATCTATCTGCCCCGGGACTATGTAGAATCTCTGCACCAGAACTCCAGGGCCACCCCTGCT
CTATGGAAGAACAATGTTCTGGTTCAGCCAAGGGATGACATGGAGGCCGTGCCAGGGTACCTGTCTCTG
CACCAGACAGCGGATGTCATGACCTTGAAGTGGACACCCAATCAGCTGATGAACGGGTCTGTGGGGGATC
TGGACTACGAGAAGAGTGTCTACTGGGACTACGCTGTGACCATCCGCTTAGAGGAGATAGTTTACCTGCA
CTGCCATCAACAAGTGGACAGCGCGGGACTGTCTGTGGTGGAGCCAGGATGGAATCCAGAGGCCACCC
TTCCGCTTCCCCAAGGGCGGGCACCTGTACAGTTCCTCTCCTGTCTGGAGAATGGGCTGCTTCCGCACG
GGCAGCTGGACCCGCGCTTTGGTCACAGCGAGGAAAGGGAAGGTATTTCTAAGTTGCGCAAGCGCAG
CCCACAGGGTCTCCGAGTCCACGTCTTCAGACAAGGAGGACGACGAAGCCACGGATTACGTGTTCCGC
ATCATCTACCCTGGCACGCAGTCTGAATTCGTGCCCCAGGACCTAATGGATGTCTCTATGAACAACCTTC
CACCCCTATGGCAACCCAGTCTCGGAAGTCTCTGCTCTTCTGTTTCAAAAGCGGCTCAGTGACGG
CGGCTCAACCAATGGCTGTAACCATGAGAGGGCCCCACTGAAACTGCTGTGTGATAACATGAAGTACCAG



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ATCCTCTCCAGAGCCTTCTATGGATGGCTCGCCTACTGCAGACACCTGTCCACCGTGAGGACCCACCTGT
CAGCCCTGGTCAATCACATGATCGTGTCTCCAGACCTGCCCTGTGACGCTGGGCAAGGGTTGACAGCCAG
CATCTGGGAAAAATACATCCAGGACAGCAGACCTACCCGGAGCAGGAGCTGCTGCGTCTCATCTACTAT
GGAGGTGTCCAGCCTGAGATCCGACGGGAGTGTGGCCCTTCTCCTCGGCCACTACCAGTTTGGGATGA
CAGAGATGGAGAGGAAAGAGGTAGACGAACAGATCCATGCCTGCTACGCACAAACCATGTCGGAGTGGCT
GGGCTGTGAAGCTATCGTGAGACAGAGGGAGCGGGAGTCCCACGCGGCTGCCCTGGCCAAGTGCTCTTCA
GGAGCCAGCCTGGACAGCCACCTTCACCGGATGCTGCACCGGAGTCCACCATCAGCAATGAGTCATCCC
AGAGCTGCAGCTCAGGCCGCCAGAACCTCCGACTGCAGAGCGACTCCAGCAGCAGCACACAGGTATTTGA
GTCTGTGGATGAGGTGGAGCAGACAGAGGCAGAAGGCAGGTGAGAAGAAAAACATCCCAAAATCCCAAT
GGGAACCCAGCCAACGGCACTTGCTCCCAAGACTCCGGACACCTTCTCCCAAACTTCTCCTCTGGTC
TCTCCGAGCACTCTGAGCCAGTCTTAGCACTGAAGACAGCGTCTTGGATGCCCAACGCAGCCTTCCAGC
TGTGTTTTCGGCTGGGACAGCAGCGTGAAGATGGGCAGAGCAGCAAGCCACCACATCCCGGACGAG
GCCCTCGGGAGGAGCTGGCCGTGCAAGATAGCCTTGAGAGTGACCTCCTTGCCAACGAGAGCTTGAGG
AGTTCATGTCTATCCCTGGCAGCCTGGACGTGGCCCTACCTGAGAAGGATGGCGCGGTGATGGACGGCTG
GCCCGGTGAGGCGGACAAGCCAGTCGGCTGACAGTGAGGACAACCTCTCAGAAGAGCCTGAGATGGAG
AGCCTGTTCCCTGCCCTGGCTTCTCTGGCTGTGACCTCCTCTGCCAATAACGAGGCATCCCTGTGTCT
CCAGTGGAGTCACCTATTCTCCAGAACTACTGGACCTGTACACCGTGAACCTGCACCGCATTGAGAAAGA
TGTGCAGAGGTGTGACCGCAGCTACTGGTACTTCACAGCAGCCAACTGGAGAAGCTGAGGAACATCATG
TGCAGCTATATCTGGCAGCACATCGAGATCGGCTACGTCCAGGGCATGTGTGACCTCCTGGCCCCGTTGC
TGGTCATCCTGGATGATGAGGCCCTGGCCTTCACTTGTTCACGGAGCTGATGAAGAGGATGAACAAAA
CTTCCCCATGGAGGCGCCATGGATACGCACTTCGCCAACATGAGGTCTCTGATCCAGATCCTGGACTCC
GAGCTCTTCGAGCTGATGCATCAGAACGGCGATTACACCACTTCTACTTTTGTACCGCTGGTTCTGC
TGGATTTCAAACGAGAGCTGGTCTATGATGACGTCTTCCGTGTGGGAACTATCTGGGCTGCTAAGCA
CGTGTCTCCGCCCACTACGTGCTGTTTATCGCGCTGGCGCTGGTGGAGGTCTACAGAGACATCATCCTG
GAGAACAATATGGAATCACTGACATTCAAGTTCTTCAACGAAATGGCTGAGCGGCACACGCCAAGC
AGATTCTGCAGCTCGCCCGGACCTCGTGCATAAGGTGCAGATTCTAATTGAGAACAAGTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-MluI
ACCN:	NM_172718
Insert Size:	3282 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.

Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_172718.3, NP_766306.2</u>
RefSeq Size:	5171 bp
RefSeq ORF:	3282 bp
Locus ID:	52850
UniProt ID:	<u>Q8BPQ7</u>
Cytogenetics:	5 55.45 cM
Gene Summary:	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] Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (a). 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.