

Product datasheet for **MC223415**

Sgsm1 (NM_001162965) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Sgsm1 (NM_001162965) 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
Fully Sequenced ORF: >MC223415 representing NM_001162965
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCTTCGGTCCCTGCGGAGGCCGAGACCCGCCAGAGGCTGCTGCGCACTGTGAAGAAGGAGGTGAAGC
AGATCATGGAAGAAGCCGTTACCAGAAAGTTCGTCCACGAGGACAGCAGCCACATCATCTCTTCTGTGC
GGCCGTGGAGGCCTGCGTGTGCACGGGCTGCGCGGAGGGCGGCCGGCTTCTGCGAAGCAACAAGATC
GCGGCGCTCTTATGAAGGTGGCAAGGCTTCCCTCCGCGCCGAGGAGCTGAGCCGAAGTCCAGGAAC
TGGAGCAACTCATTGAGAGCGCGCAAACCCAGATCCAGGGCCTGCAAGAGAACGTGCGGAAGCTGCCGAA
GCTGCCTAACCTGTCCCGCTGGCCATCAAGCACCTGTGGATCCGCACCCGCTGTTTCGAGAGGGTCCCTG
GACAAAATCGTCCACTACCTGGTGGAAAACAGCAGTAAATACTACGAGAAGGAGGCACTCTTGATGGACC
CGGTGGACGGACCCATCCTGGCCCTTTGTTGGTGGGGCCATGTGCCCTGGAGTATACCAAGATGAAGAC
TGCAGATCACTTCTGGACTGACCCCTCAGCCGACGAGCTGGTCCAGAGACACCGGATCCACAGCTCACAT
CTGAGACAGGACTCGCCACCAAGCGGCCAGCGCTCTGTATCCAGAAGAGGCATTCCAGTGGCAGCATGG
ACGACCGGCCATCTATCTGCCCCGGGACTATGTAGAATCTGCACCAGAACTCCAGGGCCACCCTGCT
CTATGGAAGAACAATGTTCTGGTTCAGCCAAGGGATGACATGGAGGCCGTGCCAGGATCCTGTCTCTG
CACCAGACAGCGATGTCATGACCTTGAAGTGGACACCCAATCAGCTGATGAACGGTCTGTGGGGATC
TGGACTACGAGAAGAGTGTCTACTGGGACTACGCTGTGACCATCCGCTTAGAGGAGATAGTTTACCTGCA
CTGCCATCAACAAGTGGACAGCGCGGGACTGTGCTGCTGGTGGAGCCAGGATGGAATCCAGAGGCCACCC
TTCCGCTTCCCCAAGGGCGGGCACCTGTACAGTTCTCTCTGCTGAGAGAATGGGCTGCTTCCGCACG
GGCAGCTGGACCCGCGCTTTGGTCACAGCGAGGAAAGGGGAAGGATTTCTAAGTTGCGCAAGCGCAG
CCCACAGGGTCTCCGAGTCCACGTCTTCAGACAAGGAGGACGACGAAGCCACGGATTACGTGTTCCGC
ATCATCTACCCTGGCAGCAGTGAATTCGTGCCCCAGGACCTAATGGATGTCTCTATGAACAACCTTC
CACCCCTATGGCAACCCAGTCTCGGAAGTCTCTGCTTCTCCTGTTTCAAAGCGGCTCAGCTGACGG
CGGCTCAACCAATGGCTGAACCATGAGAGGGCCCCACTGAAACTGCTGTGTGATAACATGAAGTACCAG
ATCCTCTCCAGAGCCTTCTATGGATGGCTGCCTACTGCAGACACCTGTCCACCGTGGAGACCCACCTGT



CAGCCCTGGTCAATCACATGATCGTGTCTCCAGACCTGCCCTGTGACGCTGGGCAAGGGTTGACAGCCAG
 CATCTGGGAAAAATACATCCAGGACAGCAGACCTACCCGGAGCAGGAGCTGCTGCGTCTCATCTACTAT
 GGAGGTGTCCAGCCTGAGATCCGCAGGGCAGTGTGGCCCTTCTCCTCGGCCACTACCAGTTTGGGATGA
 CAGAGATGGAGAGGAAAGAGGTAGACGAACAGATCCATGCCTGTACGCACAAACCATGTCGGAGTGGCT
 GGGCTGTGAAGCTATCGTGAGACAGAGGGAGCGGGAGTCCCACCGGGCTGCCCTGGCCAAGTGCTCTTCA
 GGAGCCAGCCTGGACAGCCACCTTCACCCGATGCTGCACCGGGACTCCACCATCAGCAATGAGTCATCCC
 AGAGTGCAGCTCAGGCCGCCAGAACCTCCGACTGCAGAGCGACTCCAGCAGCAGCACAGGTATTTGA
 GTCTGTGGATGAGGTGGAGCAGACAGAGGCAGAAGGCAGGTGAGAAGAAAAACATCCCAAAATCCCAAT
 GGAACCCAGCCAACGGCACTTGCTCCCCAGACTCCGGACACCTTCTCCCACTTCTCCTCTGGTC
 TCTCCGAGCACTGTAGCCAGTCTTAGCACTGAAGACAGCGTCTTGGATGCCCAACGCAGCCTTCCAGC
 TGTGTTTCGGCCTGGGGACAGCAGCGTGAAGATGGGCAGAGCAGCAAGCCACCACATCCCGGGACGAG
 GCCCTCGGGAGGAGCTGGCCGTGCAAGATAGCCTTGAGAGTGACCTCCTGCCAACGAGAGCTTGGAGG
 AGTTCATGTCTATCCCTGGCAGCCTGGACGTGGCCCTACCTGAGAAGGATGGCGCGGTGATGGACGGCTG
 GCCCGGTGAGGCGACAAGCCAGTCGGGCTGACAGTGAGGACAACCTCTCAGAAGAGCCTGAGATGGAG
 AGCCTGTTCCCTGCCCTGGCTTCTTGCTGTGACCTCCTTGCCAATAACGAGGCATCCCTGTGTCTCT
 CCAAGTGGAGTCACCTATTCTCCAGAACTACTGGACCTGTACACCGTGAACCTGCACCGCATTGAGAAAGA
 TGTGCAGAGGTGTGACCCGAGCTACTGGTACTTACAGCAGCCAACCTGGAGAAGCTGAGGAACATCATG
 TGCAGCTATATCTGGCAGCACATCGAGATCGGCTACGTCCAGGGCATGTGTGACCTCCTGGCCCCGTTGC
 TGGTCACTCCTGGATGATGACCAGTTTCTCTGTATAGCCCCAGCTGTCTGGAACCAAGTTGTAGACCA
 GGCTGGCCTCGAAGTCAAGAAATCCGCCTGCCTTGGCTTCCCAATGCTGGGATTAGAGGCATGCGCCACC
 ACCGCCCGGCTAGATAATTGGAATGTTAGCAGCTCACTGGCGATACCAGTCCTCACCGGCATCTCACAT
 TTACCTGATGTCTACGTACAGACAATCATTCCAGGAAATGTCAGACTAGTACCTCTCATGAATATAA
 AAGCAAAACGTCTCAAAAAAAAAATCAACAACTCAATCCAAGAAGATATAAAATATTACACTGCATGGCC
 AAGCGGGTCTTATCCAGAAACGCAAGGGTGGTTCAATATCCAAGCATCAATCAGTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

SgfI-MluI

ACCN:

NM_001162965

Insert Size:

3210 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.

RefSeq:

NM_001162965.1, NP_001156437.1

RefSeq Size:

3825 bp

RefSeq ORF: 3210 bp

Locus ID: 52850

UniProt ID: [Q8BPQ7](#)

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 (3) differs in the 3' coding region and 3' UTR, compared to variant 1. The resulting isoform (b) has a distinct C-terminus and is shorter than 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.