

Product datasheet for **SC316441**

SGSM1 (NM_001098497) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SGSM1 (NM_001098497) Human Untagged Clone
Tag:	Tag Free
Symbol:	SGSM1
Synonyms:	RUTBC2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_001098497 edited
AGACAAGGCGAGGAGGGGAAGGAAAGCAGGTGTCAAACATCCCAAACAGCCTGAAAGG
CCTTGTGGGAGCAATGCAGCCCTTTTGGGGCACCTATACCCAGGTCACCTTGGTCACCT
TGGACCTCTTCCCTCCGGTCACCTTTGCCTTCCATGGCCTCGGCCCCCGGAGGCGGA
GACCCGACAGAGGCTGCTACGCACCGTCAAGAAGGAGGTGAAGCAGATCATGGAGGAGGC
TGTGACACGCAAGTTTGTCCACGAAGACAGCAGCCACATCATCTCCTTCTGTGCGGCTGT
GGAGGCCGTGCGTTCTGCACGGGCTTCGGCGGGGGCGGCTGGCTTCTACGCAGCAATAA
GATTGCAGCCCTCTTATGAAAGTGGGCAAGAACTTCCCGCCGGCTGAGGATCTGAGCCG
CAAGGTGCAAGACCTGGAGCAGCTGATCGAGAGCGGAGAAACCAGATTCAAGGCCTCCA
GGAGAATGTGCGAAGCTGCCAAGCTGCCAACTTGCCCACTTGCCATCAAGCATCT
GTGGATTCGCACAGCCTTGTGAGAAGTCTGGACAAAATTGTGCATTACCTTGTGGA
AAACAGCAGTAAATACTATGAGAAGGAAGCTCTCCTGATGGACCTGTGGACGGCCCAT
CCTTGCATCTTTGTTGGTGGGGCCCTGTGCCCTAGAGTACACCAAGATGAAGACTGCAGA
TCACTTCTGGACCGATCCCTCGGCTGACGAACTTGTCCAGAGGCACCGCATCCACAGCTC
CCACGTGCGGCAGGACTCGCCACCAAGCGTCTGCCCTCTGTATCCAGAAGAGGCAATC
CAGTGGCAGCATGGATGACCGGCATCCCTCTCTGCCCGGACTACGTGGAGTCCCTGCA
TCAGAACTCCCGTGCCACCCTTCTATGGCAAAAACAACGTTCTTGTTCAGCCGAGGGA
CGACATGGAGGCTGTGCCAGGGTACCTGTCCCTGCACCAGACGGCTGACGTCATGACCTT
GAAGTGGACACCAACCAGCTGATGAACGGGCTGTGGGGACCTGGACTATGAGAAGAG
CGTCTACTGGGACTATGCCATGACCATCCGCTTGGAGGAGATTGTCTACCTGCACTGCCA
CCAGCAAGTTGACAGCGCGGGACAGTGGTATTGGTACAGCAGGACGGATCCAGAGGCC
GCCCTTCCGCTTCCCAAGGGCGGGCACCTCCTGCAGTTCCTCTCGTGCCTGGAGAATGG
GCTGCTCCACATGGGCAGTTGGACCCGCCACTGTGGTCCAGAGGGGTAAAGGGCAAAGT
GTTTCTAAACTGCGCAAGCGAAGCCCTCAGGGTCTGCCGAGTCCACATCTTCAGACAA
AGATGATGATGAGGCCACGGATTATGTGTTCCAGGATCATCTACCCTGGCATGCAGTCGGA
ATTCGTGCCCCAGGATCTGATGGACGTCTGTGAAGCAACCTCCCATCCCTGTGGCAGCC
CAGTCCCCGGAAGTCTCCTGTTTCATCCTGTTCCAGAGTGGCTCGGCTGATGGTAGCTC



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GACCAATGGCTGCAACCATGAGAGGGCTCCCCTGAAACTTCTCTGTGACAATATGAAGTA
 CCAGATCCTCTCCAGAGCCTTCTATGGATGGCTGGCTACTGCAGACACCTGTCCACCGT
 GAGAACCACCTATCAGCCCTGGTCAATCACATGATCGTGTCTCCAGACTTGCCCTGCGA
 TGCTGGACAGGGACTGACAGCCAGGATCTGGGAGCAGTACCTTACGACAGCACAAAGTTA
 CGAGGAGCAGGAGCTGCTGCCCTCATCTACTACGGGGGCATCCAGCCTGAGATCCGAA
 GGCCGTGTGGCCCTTCTCTGGGCCACTACCAGTTCGGGATGACGGAACAGAAAGGAA
 AGAGGTGGACGAGCAGATTGATGCCTGCTATGCACAGACCATGGCTGAGTGGCTGGGCTG
 CGAGGCGATCGTGCGGCAGAGGGAGCGGGAGTCCCATGCGGCCGCCCTGGCCAAATGCTC
 ATCCGGGGCCAGCTTGGACAGCCACCTGCACCGGATGTTGCACAGGGACTCAACCATCAG
 CAATGAGTCTCCAGAGCTGCAGTTTCGGGCCGCCAGAACATCCGCCTGCACAGCGACTC
 CAGCAGCAGCACAGGTGTTTGTGCTGTGGATGAGGTGGAGCAGGTGGAGGCTGAAGG
 CAGATTGGAGGAGAAACAGCCCAAGATCCCAATGGGAACCTAGTGAACGGCACTGTTC
 CCCAGACTCGGGTATCCTTCTCCATAACTTCTCTCGGGCCTCTCAGAGCACTCAGA
 GCCAGTCTGAGCACAGAAGACAGTGTCTTGGACGCCAGCGGAACACCCCCACGGTGTCT
 GCGACCTAGGGATGGCAGCGTGGATGACAGGCAGAGCAGCGAGGCCACCACATCTCAGGA
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 CGAGAGCATGGACGAGTTCATGTCCATCACGGGACGCCTGGACATGGCCCTGCCTGAAAA
 GGACGATGTTGTGATGGAGGGCTGGAGGAGCAGCGAGACAGAGAAACATGGCCAGGCGGA
 CAGTGAGGACAACCTCTCGGAGGAGCCTGAGATGGAAAGTCTCTTCCCTGCCCTGGCTTC
 TCTGGCTGTGACTACTTCTGCCAACGAGGTGTCCCCTGTGTCTTCCAGCGGCGTCACCTA
 CTCTCCAGAGCTGCTGGATCTGTACACGGTGAACCTGCACCGCATCGAGAAGGATGTGCA
 GAGGTGCGACCGCAACTACTGGTACTTACGCCCGCCAACTTGGAGAAGCTGCGTAAACAT
 CATGTGCAGCTACATCTGGCAGCACATTGAGATCGGCTATGTCAGGGCATGTGTGATCT
 TCTGGCTCCACTGCTGGTATTCTGGATGATGAGGCCCTTGCCTTCAGCTGCTTACGGA
 GCTCATGAAGAGGATGAACCAGAACTTCCCCACGGAGGCGCCATGGACACGCACTTTGC
 AAACATGAGATCGTTGATCCAGATCCTGGACTCAGAGCTGTTTGTGATGATGCATCAGAA
 CGGGGACTATACTCACTTCTACTTCTGCTACCGCTGGTTCCTGCTGGATTTCAAGCGAGA
 ACTCGTCTATGATGACGTCTTCTTGGTCTGGGAGACCATCTGGGCAGCCAAACACGTCTC
 CTCTGCGCACTACGTCTTCTTTCGCTGGCTCTGGTGAAGTCTACCGTGACATCAT
 TTTGGAGAACAACATGGATTTACAGACATCATCAAATCTTTAATGAAATGGCTGAGCG
 ACACAACACCAAGCAAGTCTGAAGCTGGCGCGGACCTCGTGTACAAGGTGCAGACTCT
 GATTGAGAACAAGTGAGGGGCACCTCACCCGGCAGCCTCAGCCAAGCTGCCCTGCCCC
 GCTCCTCTGCTTACTTTCTCCTGGCTGGATGGGCACCCCGGGAGCGGGGTCTGGTGT
 CTGTTACAAGCGTGGAGTTGAGTGTGCAAGAAACTACCCTGACTTTTACTTCTGGGCA
 GATGGGGTGGAGGGAGTACCCCTTCAATTCAGCCTTACATTTCTGTTTGACCAAAGAT
 TGCCCAAGTCTGGCGTTCCTCCCTTGCAGGAGGTGGAGTTGTTGGTGGAGGAGGAGCCA
 TCTTTGTTGCTGGTGCCCGAATGGTCTCCTCT

Restriction Sites:

Please inquire

ACCN:

NM_001098497

Insert Size:

3800 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:

The ORF of this clone has been fully sequenced and found to be a perfect match to NM_001098497.1.

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_001098497.1, NP_001091967.1</u>
RefSeq Size:	6036 bp
RefSeq ORF:	3282 bp
Locus ID:	129049
UniProt ID:	<u>Q2NKG1</u>
Cytogenetics:	22q11.23
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 (3) lacks an alternate in-frame exon, and includes an alternate in-frame exon, compared to variant 1, resulting in a shorter protein (isoform 3), compared to isoform 1.</p>