

Product datasheet for **SC105863**

SGSM1 (AL833343) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	SGSM1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for AL833343, the custom clone sequence may differ by one or more nucleotides

CCTCAGATTAAAGGATATCTGGCTTCTCTTAATCTCTTAATATTTTCATTTTGTCTAGGGCTCCCAAT
ATTACAAGTCTGTTCTTGACAAGGAAGTTGGGATGACAGAAGTACTGTATGAAAAGTACAGAAATGCTCAG
AAGTGCAGACCTTTGGTTCTGTTTTCTTCTCATCAGATAGGAATTTTTTAACTACGCACAGAATCAC
ACTTGCAGAGTCTTCTTTCTTCTTGTACTTTATTTAGAAGCCGTGAAGTCAAGAAGTAGGTCCCATG
TTGAATCTACATGTGCGCAGGTGATTCTTTAGCCAAGTCATTTCCACACTCATGCCAAGTCTGGAGAT
ACACAGGTATGTGGAATGTTTGAAAAGCAAAACCAGGTTGATGAGACTTTCAATCTCTTGATAACCTGT
CATCTAACCTCTGAGGGTCCACTCTGGTAAATGTCAACGTGACAGATGCTACCTCTCCAGGTACACCTGG
TCAAGTGCAGTCTTTCAGAGCAGTGAGAGCACCATAGAACTTGATACATAGTTTGTGTCAGCAAAAGAGA
GAGGTAGATATTAGCATTTCAAAAGAGCTACTTAAACAATTATAGTAGGTTGAATATGAGCCCTATAA
TAATGTCACCCCTACTTCTGTTCTTACATGTTCTGACAAGGAAAAGACCGTGCCTCATCTCTGGCTCTCA
GAATTGTCCATCATCCACAGTCTATTTATTTATACCTACGTGGTAACTGCTAACTCAAATAGGCGTGAT
GGTGACCGATTATCATTGTGTTCCCTTTGCCACCAGGTGCGGGTTTCTGACAACATCAAGATATGAAAG
GTTGTCACTCACTGAACCCCTAATGTGTGTTAACTGTTGGGGAAGAATGGGAATCACTGCCCTGAGACA
CAGAATTTAATTAGGCCTGCTTCTTTGTGTTTCTTTAATGATAGGATTTAAGCTCAACGGTTATCAG
CTCAAAAGCAGAAAATGTTTATCCCGTTTGTGCCCTGGTATCTTGAAGAATGTGCAATAGGTGAGCTTG
CCATTAATCTAACTGAATTTCTCCCTGCTTGAGACATTATGGTTTTGAAAACAGCCTTCTAAGAGTGCA
CTAAAGTTACCCTACCCTCACTCATCTCTACTCTGCAAGTCTAAAAATGTGGCGTGTGTCAGGGTAC
ACAGTAAGACAATTCATTTATTTTAAAGTGTTCATTCTCCACTCATTTCTCATCTGTGCAAGTGGGC
TGAGCTAGAATTTAGCTGTGTGTTCTTAAAGAAATGTGCTCACTGTTTTCACACATTAGCCTTGTTCCTA
TGCTGGGTCTGATTACATGCTGATAGATTCTGGTTTTTTAAGCAAGTAACTCTCTTTTCCATTAA
TGCAGAGGTAGAGGGAGGAGTTTCATCCGAAATGTCCCTGATTGAGACTGTCTTCTAGGTTGGTCTCT
TTGGCTCGAACAGAGGGAACCACTGCATTAGGCTTGACAGAGGTCTCATAGTTCAGCCTGGCTGTAGCCC
TGGAAGTCAGTTGGACAGCAGTTGCCCAAGATGCCATGACAAAATTTACCCATCCTGTGCCCTCTTCCAC
GTGCGTGTCTGTGCTTACTGGAACAGGAAAACATTGCGTTGTCTTCTGCTAAGTGGGAATAGGACATT
TGGCTGAAAAGCTTCTTATCATGGGCTAATATGTGCTGTGCTCACTCAGCTCAGGGAACCTCTCATTTT
ATTCCACAGGCTGCTGCTTAAGTTAATGATTTCTTTGATGACAGGTTCTGCATGAATTCATTTAACAT



CGTTGCTCTGTTTTCTACTCTTTTTTCTCCCTAAAAATGTGAGCTCTAATTTGAAGCTAATAAGTTTT
GACATGCAAGCAACCAATTACTGGATAGAGCAAGGAGAATATTTATTAGTAATTTTGACCAGATAGGA
TGGTAAGGTCAGTTAATGAACCTAATGAACCTCAGGGTTCATTTTTTATAACCTTACCGGGACTGGATTT
CTTTCTTTCTTTTTTCTTAAGCTGCCAACAGTTCTTGTGAGGATTCAATGTAGATGCTGCTGGCTG
TCCTGGTGGTGGTTGATCTCTGTTGTGTGGGCTTCAAGGGGCTCTGGTTCAGTGATTCCAGTAATGG
CTACCACTCGGTGACCACATAGTGTGTGCTGCACACTGGATGTGACTTTTTTGTCTTCCCTGCATTGGT
GCTTCTGCTGTCCACTCACTGGTCTTAGAGGTCTGGCTTTTCTTCTGAGGATCGTGGGTTTGGCCCTC
TTTTCAAGAGGAGCCAGTGTGCACCTTCTGACTGGCAACTCTGCTTTCTTTGTCTCTGCTGTCTC
CCTCATCAGGTTTATTAGCAGTTCAGCTCTCAGGACTTAGTTTTTGGGGCATCCCATCTCTTAGGCAGT
CTTTTCATGTAAAGACATTGGAAGGAGAGCATCTCTCTATTCTCAGAAATGTTTTGAAACCTGTTTT
TCAGTGTCTTGTGTCTGCCTGCAGCTCCCAACCATCTTCTCTTGGCCTTTACAAGACGAGGTTCA
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CATATGAAATAGCAATGAGAGCTGGAGAAACATGGGGTGGAGAAGAGGAGTTACAAGCAATACTGGT
TTCTTTTGTGACCCTGAGAAATCTATCCCATAGATGGATTGGCATTGCTTCTTCTGACAGGTAT
GAAATGTCAAAGTATGTAACAAACAAACAAACAAACAAACAAACAAACAAACAAACAAACAAACAAAC
TTGGAGTATGATTATAGGATTCTTCTGCAGAGCATTTTCATGTAGGTTATCATGTTAAATAAGCTAGA
TTAACATAATGTCCTTGGGAAATGATGATAGCCCAATGAACCTAATGTTTGTGTTTTCTGAAGGATTCAAG
GGATATTCTTGAATCTGAGAATATGTGATTTTATTACACTCTAAACCACCAATTCTGTAAGGTGAAAT
TGAAGTCTATTATCAATAGGCCTATCTCTTAGAAAAATAAGTCATGATGCTAATTTGTCTAAATC
TTGATTAATGCCCTGTAAATACTAAATTTATTTAGTGTGTTAGGAAACTCTGAAAAGGACACAAGCTTT
AGTATTGCAGTTTCCAGTGTCTAAATTCATGTTTTTTTCTTTTAGGAGGATAGTTTTTGGTGTG
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GCCTCGTTAATGGTAGGTGTTAGGGGAAACCTAACATTAGCCTCTAGCATGAGGGAGTGAATTAACA
TAGTCACACATCCGCAACACAGCAGTAGTGATTTCATTTATTAATAGCTGGGTACAAAAAATTGTGAAG
ACATGTGCTTGGCAATGACTACGATGAGAAGGGGACTATGAGAAATAGACACACACAATAAGAATATTTA
CATTTTGGGCCGGCGCAGTGGCTTACACTTGTAAATCCAGCACTTTGGGAGGCCGAGGCGGGCGAATCA
CAAGGTCAGGAGTTTGAAGCCAGCTGGCCAACACAGTGAAACCTGTCTCTACTAAAAATACAAAAAT
AGCTGGGTGTGGTGGAGGTGCTGTAAATCCAGCTACTTGGGAGGCTGAGGCAGGAGAAATGCTTGAAC
CCAGGAGGCGGAGGTTGAAGTGAAGTGAAGTCTCGCCACTGCACTCCAGCCTGGGTAAACAGAGCTACTCT
GTCTCAACA

5' Read Nucleotide

Sequence:

>OriGene 5' read for AL833343 unedited
TTTGAATACGACTCACTATAGGGCGGCCGAATTCGGCACGAGGTTCAAGATAACTT
CTTGGTACATTGGCCTCAGATTAAGGATATCTGGCTTCTCTTAATCTCTTAATATTTTC
ATTTTTGTCTCCAGGGCTCCCAATATTACAAGTCTGTTCTTGACAAGGAAGTTGGGATGAC
AGAACTACTGTATGAAAACCTCAGAAATGCTCAGAAGTGCAGACCTTTGGTCTGTTTTCT
TCCTCATCAGATAGGAATTTTTTTAACTACGCACAGAATCACACTTGCGAAGTCTTCTT
TTGTTCTTGTACTTTATTTAGAAGCTGTGAACCTAAGAAGTAGGTCCCATGTTGAATC
TACATGTGCGCAGGTGATTCTTTTAGCCAAGTCATTTCCACACTCATGCCCAAGTCTGGA
GATACACAGGTATGTGGAATGTTTGAAGCAAAACAGGTTGATGAGACTTTCAATCT
CTTGATAACCTGTCATCTAACCTCTGAGGGTCCACTCTGGTAAATGTCAACGTCAGACAT
GCTACCTCTCCAGGTCACCTTGGTCAAGTGCACCTCTCAGAGCAGTGAGAGCACCATAGAA
ACTTGATACATNAGCTTGTGTCAGCAAAAGAAAGAGGTAGATATTAGCATTTCCAAAGA
GCTACTTANAACATTATAGTAGTNAATATGAGCCTATATAAGGCCNCTTNNACTCTGTCT
TACATGTTCTGCAGGAAAGACCGTGTCTCTCTGCTCTCAGATTGTCATCTCCAGCT
ATTTATTTTAACTTACGGGGACTGCTACTNAAAGCGGGAGGGGACGATTAATTGGGTTCC
TTGCACAGGGCGGATCTAACTAGATAC

3' Read Nucleotide Sequence:	>OriGene 3' read for AL833343 unedited <pre> GGTCCAGCTATGNACCGCGGGCCGAANCTAGAGATCGAGTTTTTTTTTTTTTTTTTGT TGTGTTGTTGTTGAGACAGAGTAGCTCTGTTACCCAGGCTGGAGTGCAGTGGCGAGATC TCAGTTCACCTTCAACCTCCGCCTCCCGGGTTCAAGCAACTCTCCCGCCTCAGCCTCCCAA GTAGCTGGGATCACAGGCACCTCCACCACACCCAGCCAACCTTTGTAATTCTAGTAGAG ACAGGGCTTCACCGTGTGGCCAGGCGGTCTCAAACCTCTGACCTTGATCCGCCCGC CTCGGCCTCCCAAAGTGTGGGATCACAAGTGAAGCCACTGCGCCCGGCCAAAATGTA AATATTCCTTATTGTGTGTCTATTTCTCATAGTCCCTTCTCATCGTAGTCATTGCCAA GCACATGTCTTCACAATTTTTTTGTACCCAGCTATTAATGAATGAATACACTACTGCTGT GTTGCGGATGTGTGACTATGTTAATTTCACTCCCTCATGCTAGAAGCTAATGTTAGGGTT TTCCCTTAACACCTACCATTAAACGAGGCTTAATGTTTTCTTTAAATCATGGGCTGTT GTATCTCTTCTTTAAATCCTCTCTTCCAAGCCAAACAACAACCAAACTATCCCTC CTAAATGAAAAANACATGGAATTTTAGACACTGGAACTGCAATACTAAAGCTTGTGTC CTTTTCAGAGTTTTCTAAACACTAAATAAATTTAGTATTTTACAGGGCACTTATCAAGA TTTTAGACCAATTAGCACCATGACTTTATTTTCTAGAGAGATAGGCCTAATTGATAATA AGACTTCAAATTTACCTTACAGAATTGGTGGTTAAGAGTGAATGAAATCCCATATTC TCAAATTCAGATATTC </pre>
Restriction Sites:	NotI-NotI
ACCN:	AL833343
Insert Size:	4500 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:	AL833343.1
RefSeq Size:	3888 bp
RefSeq ORF:	3888 bp
Locus ID:	129049

Cytogenetics: 22q11.23

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]