

Product datasheet for **SC310703**

SGSM1 (NM_133454) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SGSM1 (NM_133454) Human Untagged Clone
Tag:	Tag Free
Symbol:	SGSM1
Synonyms:	RUTBC2
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for NM_133454, the custom clone sequence may differ by one or more nucleotides

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ATGGCCTCGGCCCGCGGAGGCGGAGACCCGACAGAGGCTGCTACGCACCGTCAAGAAG
GAGGTGAAGCAGATCATGGAGGAGGCTGTGACACGCAAGTTTGCCACGAAGACAGCAGC
CACATCATCTCCTTCTGTGCGGCTGTGGAGGCTGCGTTCTGCACGGGCTTCGGCGGCGG
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GTCCAGAGGCACCGCATCCACAGCTCCACAGTGCAGGAGGCTGCGCCACCAAGCGTCTCT
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CACCAGACGGCTGACGTATGACCTTGAAGTGGACACCAACCAGCTGATGAACGGGTCT
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CTGTCCACCGTGAGAACCACCTATCAGCCCTGGTCAATCACATGATCGTGTCTCCAGAC

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TTGCCCTGCGATGCTGGACAGGGACTGACAGCCAGGATCTGGGAGCAGTACCTTCACGAC
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GAGATCCGCAAGGCCGTGTGGCCCTTCTCCTGGGCCACTACAGTTCGGGATGACGGAA
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TTCACGGAGCTCATGAAGAGGATGAACCAGAACTTCCCCACGGAGGCGCCATGGACACG
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CACGTCTCCTCTGCGCACTACGTCTTCTTGGTCTGGGAGACCATCTGGCAGCCAAA
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GCTGAGCGACACAACCAAGCAAGTCCTGAAGCTGGCGCGGACCTCGTGTACAAGGTG
CAGACTCTGATTGAGAACAAGTGA

Restriction Sites:	Please inquire
ACCN:	NM_133454
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:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<u>NM_133454.1, NP_597711.1</u>

RefSeq Size:	5874 bp
RefSeq ORF:	3264 bp
Locus ID:	129049
UniProt ID:	Q2NKG1
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] Transcript Variant: This variant (2) lacks an alternate in-frame exon, compared to variant 1, resulting in a shorter protein (isoform 2), compared to isoform 1.