

Product datasheet for **SC316436**

SGSM2 (NM_001098509) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	SGSM2
Synonyms:	RUTBC1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



Fully Sequenced ORF:

>SC316436 representing NM_001098509.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAAATTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGGCAGCGCAGAGGACGAGTCAAAGAGAACTGCTGTGAACGTGAAGAAGGAGGTGAAGCAAAATC
ATGGAGGAGGCTGTACCAGGAAGTTTGTGCATGAAGACAGCAGCCACATCATTGCTTTATGTGGTGCA
GTGGAGGCTTGCCCTCTTGCATCAGCTGAGACGCCGTGCCGTGGCTTCCTGCGCAGTGACAAGATGGCA
GCCCTGTTACCAAGGTGGGAAGACGTGCCAGTGCGGGGGAGATTTGCCACAAGGTACAGGAGCTG
CAGCAACAAGCAGAGGGCAGGAACCTCAGGGGTGAGCCAGGAGGCCCTGCGGAGACAGGGCTCAGCC
AGCGGGAAGGCCCGGCCCTCAGCCCTCAGGCCCTTGAACACGTATGGGTACGACAGGCCCTCATCGAG
AAAGTTCTGGACAAGGTCTGCAATACCTGGCGGAAACTGCAGCAAGTACTACGAGAAGGAGGACATG
CTGGCAGACCTGTGTTGCGCCGATCCTGGCCTCTCTTCTAGTGGGACCTGTGCCTTGAATACACT
AAGCTCAAGACAGCCGATCACTACTGGACTGACCCCTCTGCTGATGAGCTGGTCCAGCGGCACCGCATC
CGGGGTCCACCTACTCGCCAGGACTCCCTGCAAAGCGCCAGCCCTGGGGATCCGGAACGGCACTCA
AGCGGAGCGCGTGGAGGACAGGCTGGCTGCCTGTGCCCGGAGTGTGTGGAGTCCCTGCACCAGAAC
TCACGGACGCGGTGCTCTATGGCAAGAACCAGTGTGCTGTCAGCCGAAGGAGGATATGGAGGCGGT
CCTGGTACCTCTCCCTGCACAGTCTGCAGAGAGCCTGACTCTGAAGTGGACCCCAACAGCTCATG
AATGGGACTCTGGGGACTCCGAGCTGGAAGAGCGTTTACTGGGACTATGCCCTCGTGGTGCCTTC
AGCCAGGTCTGTGCATCCACTGCCACGCAAAAGAGCGGTGGCAGCTTGTGCTGGTGAGCCAGGAT
GGCATCCAGAGGCCCGCTGCATTTCCACAGGAGGACACCTGTGTCTTCTGTCTGTCTGGAG
AATGGGCTGCTGCTCGGGGACAGCTAGAGCCCCGCTGTGGACCCAGCAAGGAAGGGGAAAGTGTTC
CCCAAGCTACGGAACGAAGCAGCATTGCTCCGTGGATATGGAGGAGATGGGCACGGGGCGGGCCACC
GACTATGTGTTCCGGATCATCTACCCCGGCCACAGGCACGAGCACAACGCTGGTGACATGATCGAGATG
CAGGGCTTTGGGCCAGCCTGCCAGCCTGGCACCTGGAGCCCTGTGCAGTCAGGGCTCCTCCTGCCTC
TCCTGCTCTCCAGCAGTCCCAACATGCAACCCCAAGCCACTGTAGCTGCATCCCGACCGGTTGCCG
CTCAGGCTACTGTGTGAGAGTATGAAGAGGCAGATCGTGTCCCGGCCCTTCTACGGCTGGCTGGCACAC
TGCCGCCACCTGTCCACGGTGGGACCCACCTGTCCGGCGCTGGTGACCATAGCGTTATCCACCTGAC
CGGCCCGGGGGCTCCGCGGCCCTCACCAAGGACGTGTGGAGCAAGTATCAGAAGGACAAAAAGAAC
TACAAAGAGCTGGAGTGTGCGGCAAGTTTACTACGGAGGCATAGAGCAGGATCCGCAAGGACGTC
TGGCCCTTTCTGCTTGGCCACTACAAGTTCCGCATGAGCAAGAAGGAGATGGAGCAGGTGGACGAGTG
GTGGCAGCAAGGTACCAGCAGGTGTTGGCAGAGTGGAAGGCCTGCCAGGTGGTGGTGAGGCAGCGGGAG
CGGGAGGCCACCCAGCCACACGCACCAAGTTCTCCTCAGGCAGCAGCATCGACAGCCACGTGCAGCGC
CTCATCCACCGAGACTCCACCATCAGCAACGATGTGTTATCTCAGTGGATGATCTGGAACCCCGGAG
CCCCAGGACCTGAAGATTCAGACCAAACTGAGCAGGAAGCAGGACCCGGGACTCCGGGCACCGCC
GTGGTGGAGCAGCAGCATTCCGTGGAGTTGACTCTCCAGACTCAGGACTGCCCTCCTCTCGCAATTAC
TCCGTGGCCTCGGGCATCCAGTCAAGCCTAGATGAGGGGCAGAGCGTGGGCTTCAAGAGGAGGACGGC
GGTGGGAGGAAGGCTCCAGTGGGCCCGGCCCTGCAGCTCACACTTTGAGGGAGCCCAAGGATCCAGC
CAGGAGAAGCCTCAGGCCGGAAGTGGAGGCCGAGAGGAGCTTGGGCTGTGTGTGCGGCTGCCTAC
ACTATAGAATTACTGGACACTGTGGCCTTAAACCTGCACCGCATAGACAAGGATGTGAGAGGTGTGAC
CGCAACTACTGGTACTTCACGCCCCCAACCTCGAGAGGCTCAGAGACGTATGTGCAGTACGTGTGG
GAGCACCTGGACGTGGGCTATGTGCAGGGCATGTGCGATCTGCTGGCGCCTCTCCTGGTCAACCTCGAC
AATGATCAGCTGGCCTACAGCTGCTTACGCCACCTCATGAAGAGGATGAGCCAGAATTCCCAACGGG
GGTGCCATGGACACCCACTTTGCCAACATGCGCTCCCTCATCCAGATCCTGGACTCAGAGCTGTTTGAG
CTGATGCATCAGAAATGGAGACTACACCCACTTCTACTTCTGTTATCGCTGGTTCCTGCTGGATTTAAG
AGAGAACTGCTGTATGAGGATGTGTTTGTGTGTGGGAGGTGATCTGGGAGCCAGGCACATCTCATCG
GAGCACTTTGCTGTTATCGCCCTCGCCCTGGTGGAGGCCCTACCGAGAGATCATCCGTGACAACAAC
ATGGACTTCACTGACATCATCAAGTTTTCAATGAACGTGCTGAGCATCACGATGCCAGGAGATCCTG
CGGATTGCCCGGGACCTCGTCCACAAGGTGCAGATGCTCATAGAGAACAAGTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites:

SgfI-MluI

ACCN:

NM_001098509

Insert Size:	3021 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:	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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_001098509.1
RefSeq Size:	4775 bp
RefSeq ORF:	3021 bp
Locus ID:	9905
UniProt ID:	O43147
Cytogenetics:	17p13.3
MW:	113.3 kDa
Gene Summary:	The protein encoded by this gene is a GTPase activator with activity towards RAB32 and RAB33B, which are regulators of membrane trafficking. The encoded protein inactivates RAB32 and can bind RAB9A-GTP, a protein required for RAB32 activation. [provided by RefSeq, Oct 2016] Transcript Variant: This variant (2) lacks an alternate in-frame exon compared to variant 1. The resulting isoform (2) has the same N- and C-termini but is shorter compared to isoform 1.