

Product datasheet for **RC239242**

SGSM3 (NM_001301849) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SGSM3 (NM_001301849) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SGSM3
Synonyms:	CIP85; MAP; RabGAP-5; RABGAP5; rabGAPLP; RUSC3; RUTBC3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide
Sequence:**

>RC239242 representing NM_001301849
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGAGTTTGGTTCCGTGTGTACAAGGAAGAGGCTGCGGTGGCAGGCCACCTGGAGTTCACCCATAACC
 ACGATGTGGGGGATCTCACCTGGGACAAGATTGCCGTCTCCCTACCCCGCTCTGAGAAGCTCCGCTCCCT
 GGTGCTGGCCGGCATCCACATGGCATGAGGCCACAGCTGTGGATGCGGCTCTCTGGGGCCCTGCAGAAG
 AAGAGGAAGTCTGAGCTGTCTACCGCGAGATTGTGAAGAACAGCTCCAACGATGAGACCATCGTGCCA
 AGCAGATCGAGAAGGACCTGCTCCGCACCATGCCAGCAACGCCTGCTTCGCCAGCATGGGTAGCATCGG
 GGTGCCCCGCTGCGCAGGGTGTCCGGGCCCTGGCTGGCTCTACCCAGAGATCGGCTACTGCCAGGGC
 ACCGGCATGGTGGCCGCTGCCTCCTGTGTTCTGGAGGAGGAGGACGCCTTCTGGATGATGTCTGCCA
 TCATCGAGGACCTGCTCCCCGCCTCTACTTCAGCACCACCTGCTGGGTGTCCAGACTGACCAGCGGGT
 CCTGCGCCACCTATTGTCCAGTACCTGCCTCGCTGGACAAGCTGCTCCAGGAGCATGACATTGAGCTG
 TCCTGATCACACTGCACTGGTTCTCACGGCCTTCGCCAGCGTGGTGGACATCAAGCTGCTCCTGCGCA
 TCTGGGACCTGTTTTCTACGAGGGCTCCCGGGTGTGTTCCAGCTCACGCTGGGCATGTGACACCTCAA
 GGAGGAAGAGCTGATCCAGTCAGAGAACTCGGCCTCCATCTTCAACACGCTATCGGATATCCCGTCGCAG
 ATGGAGGACGCGGAGCTGCTTCTGGGGTGGCCATGCGGCTGGCCGGCTCCCTCACCGATGTGGCCGTGG
 AGACTCAGCGCCCAAGCACCTGGCCTATCTATTGCAGACAGGGCCAGCTCCTGGGGGCCGACCCCT
 CACCAACCTCTCTCAGTTGTTTCGCCGAGGACCCAGCGGAGGAAGTCCACCATCACTGCTCTGCTTTC
 GGGGAGGATGACCTGGAGGCACTCAAGGCCAAGAATCAAGCAGACGGAAGTGGTGGCTGACCTCCGGG
 AAGCCATCCTGCGCGTGGCAGCCACTTCAGTGCACAGACCCAAAACTGCAGCGTGGAGCTGACTCC
 AGACTATAGCATGGAGAGCCACCAGCGGGACACGAGAAGTACGTGGCGTGCTCACGACGCCACCGGCGC
 CGAGCCAAGGCCCTGCTGGACTTTGAGCGGCACGACGACGAGCTGGGCTTCGCAAGAACGACATCA
 TCACAATCGTGTCTCAGAAGGACGAGCACTGCTGGGTGGGGGAGCTCAACGGCCTGCGAGGCTGGTTTC
 AGCCAAGTTCTGGAAGTCTGGATGAGCGCAGCAAAGAGGCCCTGTTGGAACATGGACTGAAGAAGCCA
 TCCCTGCTTGGGGGCGCTGCCACCCCTGGCTGTTTATCGAGGAGGCTGCAGGCCGGGAGGTGAGAGAG
 ACTTTCCTCCGTGATTCCCGTCTGGTGTCTGTAAGACCTTCAGTTGGATGAAGATGGCAAAGTCTT
 GACCCCGGAGGAGCTGCTCTACCGGGCTGTGAGTCTGTGAACGTGACCCACGATGCACTGCATGCACAA
 ATGGATGTGAAGTCCGCTCACTGATCTGCGTGGGGCTCAATGAGCAGGTGCTGCACCTGTGGCTGGAGG
 TGTCTGCTCCAGCTGCCACCGTGGAGAAGTGGTACCAGCCCTGGTCTTCTGCGCAGCCCGGGCTG
 GGTCCAGATCAAGTGTGAGCTCCGAGTCTCTGCTGCTTTGCCTTCAGCCTCTCCAGGACTGGGAGCTC
 CCTGCGAAGAGAGAGGCGCAGCAGCCCCTGAAGGAGGGCGTCCGGGACATGCTGGTGAAGCACCACCTCT
 TCAGCTGGGATGTGGACGGG

ACGCGTACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC239242 representing NM_001301849
 Red=Cloning site Green=Tags(s)

MSLVSVCTRKRLRWQAHLFTHNHDVGDLTWDKIAVSLPRSEKLRSLVLAGIPHGMRPQLWMRLSGALQK
 KRNSLSYREIVKNSSNDEITIAAQIEKDLLRTMPSNACFASMGSIGVPRLLRRVLRALAWLYPEIGYCQG
 TGMVAACLLLFLEEEDAFWMMSAIEDLLPASYSFTLLGVQTDQVRVLRHLIVQYLRDLKLLQEHDIEL
 SLITLHWFLTAFASVVDIKLLRIWDLFFYEGSRVLFQLTLGMLHLKEELIQSENSASIFNTLSDIPSQ
 MEDAELLGVAMRLAGSLTDVAVETQRRKHLAYLIADQGQLLAGATLTNLSQVVRRTQRRKSTITALLF
 GEDDLEALKAKNIKQTELVADLREAILRVARHFQCTDPKNCSVELTPDYSMESHQRDHENYVACSRSHRR
 RAKALLDFERHDDDELGRKNDIITIVSQDEHCWVGELNGLRGWFPKAFVEVLDERKEALFEHGLKKP
 SLLGGACHPWLFIEEAAGREVERDFASVYSRLVLCKTFRLDEDGKVLTPSELLYRAVQSVNVTHDAVHAQ
 MDVKLRSLICVGLNEQVLHLWLEVLCSLPTVEKWPWSFLRSPGWVQIKCELRLVCCFAFSLSQDWEL
 PAKREAQQPLKEGVRDMLVKHHLFSWDVDG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001301849

ORF Size: 1980 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_001301849.2](#)

RefSeq Size: 2810 bp

RefSeq ORF: 1983 bp

Locus ID: 27352

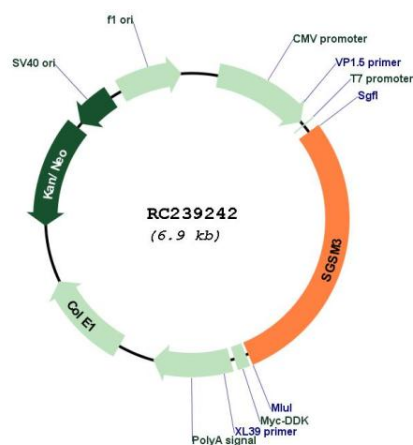
UniProt ID: [Q96HU1](#)

Cytogenetics: 22q13.1

MW: 76.1 kDa

Gene Summary: May play a cooperative role in NF2-mediated growth suppression of cells.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC239242