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Product datasheet for MC202951

Sgms1 (NM_144792) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sgms1 (NM_144792) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Sgms1
Synonyms:	9530058O11Rik; AI841905; C80702; Mob; Sms1; Sor1; Tmem23
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)

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Fully Sequenced ORF:

>BC019443 sequence for NM_144792
AGTCCCTTGAGCTCCGTGTCCTCTGCGTCTGGCTGTGCTTCCCAGAGGCGGCCTGTGGGGACCGCTGGCC
ACTCCCAACCGCTGGCCAGCTGCACGCAGAGACCCGCGTAAACTTGTCAGGAACTTTCCAGGAGGCTGCC
TTTGGGAGGAGAGAAGGAAGAATTCTGTTCAGAAATGAGGCGAACGAATGTTTGGACACCGTTGCATGAA
GTGTTTTAAAACTGCCCTGACCATCTTGCCAAATGAGTCTCTGCTCATGAGGCCCAACAAGATGAACCAG
CCAAGGAGGGATAGTGTCCTGCCCTGTACGAACAGTGACTGCTGACGTCTGAGAGCAAGCTGGGGGTACT
GAATGTTGTCTGCCAGGACCATGAAGGAAGTGGTTTACTGGTCACCCAAGAAGGTGGCAGACTGGCTGCT
GGAGAATGCTATGCCAGAATACTGTGAGCCTCTGGAGCACTTCACAGGCCAGGACTTAATCAACCTAACC
CAAGAGGATTTCAAAAAACCCCCACTGTACCGAGTCTCCTCTGACAATGGGCAGCGACTCTTAGACATGA
TAGAGACCCTGAAGATGGAGCACCATATGGAAGCACACAAGAATGGCCACGCCAACGGACACCTCAGCAT
TGGCGTTGACATTCCCAACCCCGATGGCAGCTTCAGCATCAAGACTAAACCCAACGGAATGCCAAATGGG
TTTAGGAAAGAGATGATCAAGATCCCCATGCCAGAACCGGAGCGCTCCCAGTATCCCATGGAGTGGGGCA
AGACTTTCCTGGCCTTTCTTTATGCACTTTCCTGTTTTGTTCTCACTACAGTGATGATCTCGGTCGTCCA
TGAACGAGTACCTCCTAAGGAGGTGCAGCCTCCACTACCGGACACGTTTTTTGACCATTTTAACCGGGTG
CAGTGGGCGTTTTCTATTTGCGAAATTAACGGCATGATCCTTGTAGGACTCTGGCTATTTCAGTGGCTGC
TCTTAAAATACAAGTCTATTATTAGCAGAAGATTTTTCTGCATAGTTGGCACGCTGTACCTGTATCGGTG
TATTACAATGTATGTAACTACACTCCCAGTACCTGGCATGCATTTCAACTGTTCTCCGAAGCTCTTTGGA
GACTGGGAAGCTCAAGTGCGGAGAATAATGAAGCTCATTGCTGGAGGTGGCTTATCCATCACAGGCTCGC
ACAACATGTGTGGCGACTATCTGTACAGTGGCCACACGGTCATGCTAACGCTCACCTACCTATTTATCAA
AGAGTATTCTCCTCGGCGGCTCTGGTGGTACCACTGGATTTGCTGGCTCCTCAGCGTCGTTGGAATCTTC
TGTATTCTCTTAGCGCATGACCACTACACTGTGGACGTGGTGGTGGCCTACTACATCACCACAAGACTCT
TCTGGTGGTATCACACGATGGCCAATCAGCAAGTGCTTAAGGAAGCCTCCCAGATGAACCTCCTGGCCAG
GGTGTGGTGGTACAGGCCATTTCAGTACTTTGAAAAGAATGTCCAAGGAATTGTACCTCGATCTTACCAT
TGGCCCTTCCCCTGGCCGGTAGTCCACCTTAGTAGGCAAGTTAAATATAGCCGGCTGGTAAACGACACAT
AACAGCTCTGCCGACTAGGGAATGAAGAACAGTCCGAAGTGCTAAGAACTCCATGACAGAAGATGCCATA
AAGTAACCACCTCCCCCTGCTATCTCTCAAGTTACCTTGACTTAACCTATTGCGTTACCTGCTCAGCACT
GTGATCTTTTTTTTTCTCTCCAAAGGACCCGCGTTGGACAACAATAAAGAAAAGTTCCCACATCATGCAC
TGTAGACATTTCCTGTTGTTAAGCTTGGGGCTTCTATAACAGGCAGCCACCGTGTCCCTCTGTGTCATTC
AGCCGCACCACCGTGTGCTTCTGTATCCTAAGCTCCGGCCTTTCCAGCCATATCTGGAAATAAAGTGTGT
TATTTTCTTGGGAAAACATACTTTTCATATCTCTTGCCCCAAAGACAGGGCTGTAAGCCATTTTCTAGTA
AATGTCTCTATGAAGGGTCCTAAGTGTCTGCATGGGAGTTGATTTAGAATCTCTCTGCCTATTGCACTGA
TGCTCGGCTGAAGACGATAGGTCCAGAGAGGTTTGCTCGCCTGGGGTTTTATACAGTCAGCAGAGACGGT
GTATCAAAAAGTGCAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI

ACCN: NM_144792

Insert Size: 1260 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.
RefSeq:	BC019443, AAH19443
RefSeq Size:	2199 bp
RefSeq ORF:	1260 bp
Locus ID:	208449
UniProt ID:	Q8VCQ6
Cytogenetics:	19 C1
Gene Summary:	Sphingomyelin synthases synthesize the sphingolipid, sphingomyelin, through transfer of the phosphatidyl head group, phosphatidylcholine, on to the primary hydroxyl of ceramide. The reaction is bidirectional depending on the respective levels of the sphingolipid and ceramide. Golgi apparatus SMS1 directly and specifically recognizes the choline head group on the substrate, requiring two fatty chains on the choline-P donor molecule in order to be recognized efficiently as a substrate. Major form in macrophages. Required for cell growth in certain cell types (By similarity). Suppresses BAX-mediated apoptosis and also prevents cell death in response to stimuli such as hydrogen peroxide, osmotic stress, elevated temperature and exogenously supplied sphingolipids. May protect against cell death by reversing the stress-inducible increase in levels of proapoptotic ceramide.[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (2, also known as Sms1alpha1) differs in the 5' UTR compared to variant 1. Variants 1, 2 and 3 encode the same protein.