

Product datasheet for **SC325001**

Spingomyelin Synthase 2 (SGMS2) (NM_001136258) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Spingomyelin Synthase 2 (SGMS2) (NM_001136258) Human Untagged Clone
Tag:	Tag Free
Symbol:	SGMS2
Synonyms:	CDL; SMS2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_001136258 edited
ATGGATATCATAGAGACAGCAAACTTGAAGAACATTTGGAAAATCAACCCAGTGATCCT
ACGAACACTTATGCAAGACCCGCTGAACCTGTTGAAGAAGAAAACAAAATGGCAATGGT
AAACCCAAAGAGCTTATCCAGTGGGCTGCGAAAAGGCACCAAAAAGTACCCGGACTATATC
CAAATTGCTATGCCCACTGAATCAAGGAACAAATTTCCACTAGAGTGGTGGAAAACGGGC
ATTGCCTTCATATATGCAGTTTTCAACCTCGTCTTGACAACCGTCATGATCACAGTTGTA
CATGAGAGGGTCCCTCCCAAGGAGCTTAGCCCTCCACTCCAGACAAGTTTTTTGATTAC
ATTGATAGGGTGAATGGGCATTTTCTGTATCAGAAATAAATGGGATTATATTAGTTGGA
TTATGGATCACCCAGTGGCTGTTTCTGAGATACAAGTCAATAGTGGGACGCAGATTCTGT
TTTATTATTGGAACCTTATACCTGTATCGCTGCATTACAATGTATGTTACTACTCTACCT
GTGCCTGGAATGCATTTCCAGTGTGCTCCAAGCTCAATGGAGACTCTCAGGCAAAAGTT
CAACGGATTCTACGATTGATTTCTGGTGGTGGATTGTCCATAACTGGATCACATATCTTA
TGTGGAGACTTCCCTTTCAGCGGTCACACGGTTACGCTGACACTGACTTATTTGTTTCATC
AAAGAATATTCGCCTCGTCACTTCTGGTGGTATCATTTAATCTGCTGGCTGCTGAGTGTCT
GCCGGGATCATCTGCATTCTGTAGCACACGAACACTACACTATCGATGTGATCATTGCT
TATTATATCACAACAGACTGTTTTGGTGGTACCATTCAATGGCCAATGAAAAGAACTTG
AAGGTCTCTTACAGACTAATTTCTTATCTCGAGCATGGTGGTCCCCATCTTTATTTT
TTTGAGAAAAATGTACAAGGCTCAATTCCTTGTGCTTCTCCTGGCCGCTGTCTTGGCCT
CCTGGCTGCTTCAAATCATCATGCAAAAAGTATTCACGGGTTCAGAAGATTGGTGAAGAC
AATGAGAAATCGACCTGA

Restriction Sites:	Please inquire
ACCN:	NM_001136258
Insert Size:	5500 bp



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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:	The ORF of this clone has been fully sequenced and found to be a perfect match to NM_001136258.1.
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:	<ol style="list-style-type: none">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_001136258.1, NP_001129730.1</u>
RefSeq Size:	6162 bp
RefSeq ORF:	1098 bp
Locus ID:	166929
UniProt ID:	<u>Q8NHU3</u>
Cytogenetics:	4q25
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Metabolic pathways, Sphingolipid metabolism
Gene Summary:	<p>Sphingomyelin, a major component of cell and Golgi membranes, is made by the transfer of phosphocholine from phosphatidylcholine onto ceramide, with diacylglycerol as a side product. The protein encoded by this gene is an enzyme that catalyzes this reaction primarily at the cell membrane. The synthesis is reversible, and this enzyme can catalyze the reaction in either direction. The encoded protein is required for cell growth. Three transcript variants encoding the same protein have been found for this gene. There is evidence for more variants, but the full-length nature of their transcripts has not been determined.[provided by RefSeq, Oct 2008]</p> <p>Transcript Variant: This variant (3) differs in the 5' UTR compared to variant 1. All three variants encode the same protein.</p>