

## Product datasheet for **SC325000**

### Spingomyelin Synthase 2 (SGMS2) (NM\_001136257) Human Untagged Clone

#### Product data:

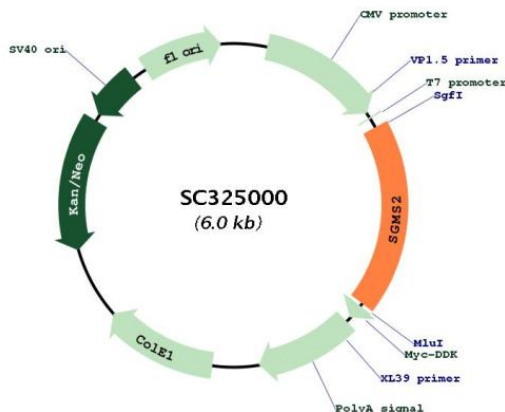
Product Type:	Expression Plasmids
Product Name:	Spingomyelin Synthase 2 (SGMS2) (NM_001136257) Human Untagged Clone
Tag:	Tag Free
Symbol:	SGMS2
Synonyms:	CDL; SMS2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC325000 representing NM_001136257. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC GCGATCGCC
ATGGATATCATAGAGACAGCAAACTTGAAGAACATTTGGAAAATCAACCCAGTGATCCTACGAACACT
TATGCAAGACCCGCTGAACCTGTTGAAGAAGAAAACAAAATGGCAATGGTAAACCCAAGAGCTTATCC
AGTGGGCTGCGAAAAGGCACCAAAAAGTACCCGGACTATATCCAAATGCTATGCCCACTGAATCAAGG
AACAAATTTCCACTAGAGTGGTGGAAAACGGGCATTGCCTTCATATATGCAGTTTCAACCTCGTCTTG
ACAACCGTCATGATCACAGTTGTACATGAGAGGGTCCCTCCAAGGAGCTTAGCCCTCCACTCCCAGAC
AAGTTTTTTGATTACATTGATAGGGTGAATGGGCATTTTCTGTATCAGAAATAAATGGGATTATATTA
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CATTTCCAGTGTGCTCCAAGCTCAATGGAGACTCTCAGGCAAAAGTTCAACGGATTCTACGATTGATT
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GTTACGCTGACTGACTTATTTGTTTCAAAAGAATATTCGCCTCGTCACTTCTGGTGGTATCATTTA
ATCTGCTGGCTGCTGAGTGTGCCGGGATCATCTGCATTCTTGTAGCACACGAACACTACACTATCGAT
GTGATCATTGCTTATTATATCACAAACACGACTGTTTTGGTGGTACCATTCAATGGCCAATGAAAAGAAC
TTGAAGGTCTCTCACAGACTAATTTCTTATCTCGAGCATGGTGGTCCCATCTTTTATTTTTTTGAG
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TCATCATGCAAAAAGTATTCACGGGTTCAAGGATTGGTGAAGACAATGAGAAATCGACCTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Restriction Sites: SgfI-MluI



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**Plasmid Map:**


**ACCN:** NM\_001136257

**Insert Size:** 1098 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.

**RefSeq:** [NM\\_001136257.1](#)

**RefSeq Size:** 5970 bp

**RefSeq ORF:** 1098 bp

**Locus ID:** 166929

UniProt ID:	<a href="#">Q8NHU3</a>
Cytogenetics:	4q25
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Metabolic pathways, Sphingolipid metabolism
MW:	42.3 kDa
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 (2) differs in the 5' UTR compared to variant 1. All three variants encode the same protein.</p>