

Product datasheet for RC227377L3

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

Sphingomyelin Synthase 2 (SGMS2) (NM_001136257) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Sphingomyelin Synthase 2 (SGMS2) (NM_001136257) Human Tagged Lenti ORF Clone

Tag: Myc-DDK

Symbol: Sphingomyelin Synthase 2

Synonyms: CDL; SMS2

Mammalian Cell Puromycin

Selection:

Vector: pLenti-C-Myc-DDK-P2A-Puro (PS100092)

E. coli Selection: Chloramphenicol (34 ug/mL)

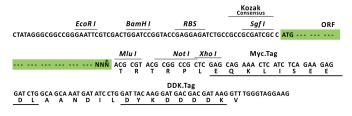
ORF Nucleotide The ORF insert of this clone is exactly the same as(RC227377).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF.

ACCN: NM_001136257

ORF Size: 1095 bp





Sphingomyelin Synthase 2 (SGMS2) (NM_001136257) Human Tagged Lenti ORF Clone – RC227377L3

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.

RefSeq: <u>NM 001136257.1</u>

 RefSeq Size:
 5970 bp

 RefSeq ORF:
 1098 bp

 Locus ID:
 166929

 UniProt ID:
 Q8NHU3

Cytogenetics:

Protein Families: Druggable Genome, Transmembrane

4q25

Protein Pathways: Metabolic pathways, Sphingolipid metabolism

MW: 42.3 kDa

Gene Summary: 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]