

## Product datasheet for **RC219758L4V**

### Acid sphingomyelinase (SMPD1) (NM\_000543) Human Tagged ORF Clone Lentiviral Particle

#### Product data:

Product Type:	Lentiviral Particles
Product Name:	Acid sphingomyelinase (SMPD1) (NM_000543) Human Tagged ORF Clone Lentiviral Particle
Symbol:	Acid sphingomyelinase
Synonyms:	ASM; ASMASE; NPD
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_000543
ORF Size:	1893 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC219758).
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. <a href="#">More info</a>
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
RefSeq:	<a href="#">NM_000543.3</a>
RefSeq Size:	2473 bp
RefSeq ORF:	1896 bp
Locus ID:	6609
UniProt ID:	<a href="#">P17405</a>
Cytogenetics:	11p15.4
Domains:	Metallophos, SAPB
Protein Families:	Druggable Genome, Transmembrane



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**Protein Pathways:** Lysosome, Metabolic pathways, Sphingolipid metabolism

**MW:** 69.94 kDa

**Gene Summary:** The protein encoded by this gene is a lysosomal acid sphingomyelinase that converts sphingomyelin to ceramide. The encoded protein also has phospholipase C activity. Defects in this gene are a cause of Niemann-Pick disease type A (NPA) and Niemann-Pick disease type B (NPB). Multiple transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jul 2010]